THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 3617 CENTRAL (3 lines).
Established in **ENGLAND, 1859.]**

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]
Established in **[AUSTRALASIA, 1885.**

No. 1,918. Vol. LXXXVIII OCTOBER 28, 1916.

Subscription Rate, 12s 6d. per annum. Single Copies, 6d. each. Winter and Summer Issues 1s each Post Free.

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Samples · and · Quotations · on · Request.

ALLEN & HANBURYS, Ltd., LONDON.

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UMNEY'S
Choice Synthetics

"ROSETTOL"

A true Rose Odour, 15/- per oz.

"ROSETTOL," first in the field, still holds first place amongst the synthetic rose products.

A PHARMACIST'S OPINION:

"Rosettol is better than any other artificial otto that I have tried."

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"Consumers have long recognised the superlative merit of Rosettol, and buyers will find that for delicacy, permanence and faithfulness to the natural product it is hard to beat."

The British and Colonial Pharmacist.

"When the firm's Rosettol was first introduced, we were much impressed by its excellent qualities, and thought it was, in fact, an improvement upon the natural otto; we think so still."

The Pharmaceutical Journal.

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Nerolettol	6/6 oz.	Really replaces Neroli Oil.
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Muscol	3/6 oz.	A highly concentrated Musk odour.

UMNEY'S PERFUMERY PRODUCTS were awarded
GRAND PRIX, Turin International Exhibition, 1911.
GOLD MEDAL, Brussels International Exhibition, 1910.

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BRITISH CHEMISTS
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BRITISH MATERIALS

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OR TO THE SOLE SELLING AGENTS

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Season
1916-1917.

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Varieties as above, 9/6 per lb.
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Warrington

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THE MEASURE OF THEIR VALUE TO THE PHARMACIST.

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. . .

SKIN SOAPS WHICH ARE NOT MEDICATED. The growing use by doctors of medicated soaps has led to the introduction of many skin soaps, some of which rely apparently on merely the emollient effect induced by soft lathering properties, as analysis reveals the amount of active remedial ingredients to be either nil or negligible. The varying nature of skin affections necessitates equally varied treatment, and the series of soaps contained in our 1916 Brochure just published is the most complete list issued, and in the opinions of doctors all over the country a standard reference and guide to the combinations required in Dermatology.

THE COMMERCIAL ASPECT. Included in our suggested stock order will be found the medicated soaps in regular demand. We are anxious to assist the pharmacist stocking our pure medicated soaps by directing business through him, and, although our regular wholesale rates admit of a very fair margin, it is to our agents (only one of whom we appoint in each town or district) we reserve the liberal discount which makes the profit on Midgleys' Soaps equivalent to that shown by your own name specialities.

. . .

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. . .

A PRACTICAL SUGGESTION. If you are interested in securing a large soap trade on an extremely profitable basis, send us a card for literature and samples, with particulars of our suggested initial order.

MEDICAL COMMENT.

" . . I wish also to thank you for "the Pamphlet upon soaps, which I con- "sider is quite a Pharmacopoeia and "should be possessed and acted upon as "such by all Medical Men, for patients "*will not* use ointments, and in your "valuable adjunct to dermatological "practice, the soaps you make up are "far superior to any medicament or oint- "ment we can have. I shall certainly "keep and use your little Pamphlet "whenever required for reference.
. . . . M.D."
" Oct. 17/16.

(Selected from many similarily eulogical letters.)

PHARMACEUTICAL COMMENT.

"Charles Midgley, Limited, have "favoured us with a copy of the latest "issue of their list of medicated soaps, "which is a revelation of the wonderful "range and variety of this leading firm's "distinctive manufactures. In an "admirably written preface, Messrs. "Midgley enumerate the uses and ad- "vantages of properly made medicated "soaps, alike for the preservation of the "skin in health and the treatment of "skin diseases, and the main conditions "pre-requisite for the production of "a reliable and efficacious medicated "soap. In this connection the incor- "porating of the medicament is of prime "importance. Messrs. Midgley effect "this by a special process which ensures "perfect incorporation without in any "way altering the composition of either "the base or the added ingredients . . ."
Pharmaceutical Journal, 7/10/16.

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British and Colonial Pharmacist, 20/10/16.

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OCTOBER 1916.

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6 doz. 2/6 Chymol at 24/- ...	144	0	,, ,, 7 doz. at 2/6...	210	0
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1 doz. 1/- free, 1 doz. 2/6 free	42	0			
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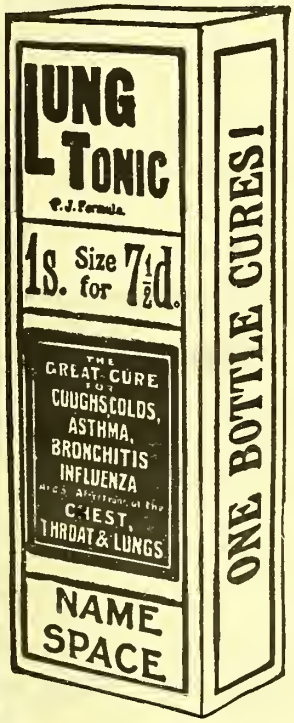

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It makes milk digestible and is invaluable in cases of malnutrition.

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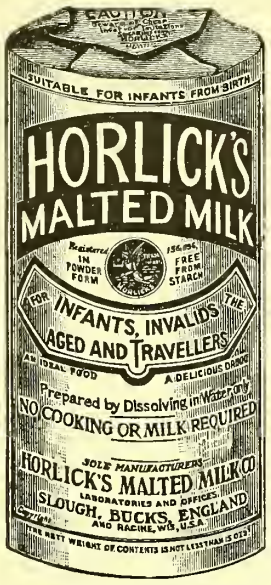

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1/6 SIZE	- 9 OZ.	- **14/9** per dozen.	Packed 1 dozen in a case.
2/6 SIZE	- 19 OZ.	- **24/9** per dozen.	Packed 1 dozen in a case.
11/- SIZE	- 99 OZ.	- **100/-** per dozen.	Packed 3 and 4 in a case.

If FULL dozens are ordered and an order made for £8 8 0 CARRIAGE WILL BE PAID IN GREAT BRITAIN, and the prices of the 1/6 and 2/6 bottles will become 14/- and 23/- per dozen each. Both powder and tablets and bottles and flasks may be included in the £8 8 0 lots. Less than one dozen 11/- bottles are charged at higher rates, and carriage is paid ONLY on the full £8 8 0 order. 1% for cash in seven days.

TABLETS ONLY IN FLASKS

ESPECIALLY CONVENIENT FOR SPORTSMEN, ATHLETES, CYCLISTS, TRAVELLERS, AND H.M. FORCES.

PACKED ONE DOZEN IN CARTON FOR COUNTER DISPLAY.

6d. SIZE, **4/6** per doz. **£2 10 0** per gross.
1/- SIZE, **9/-** per doz. **£5 0 0** per gross.

See above for terms and assortments.

Ration Tins **12/6** per doz., plus carriage, for any quantity.

SOLE MANUFACTURERS:—

Horlick's Malted Milk Co.,

SLOUGH, BUCKS, ENGLAND.

THE FLASKS.

A. MILLAR & CO., Ltd., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

SUGAR OF MILK

"Sowalt" Brand.

GUARANTEED B.P.

For Quotations apply to—

NALBOROUGH & SONS, Ltd.,

HARWICH, ESSEX.

FOR STATUS INQUIRIES, COLLECTION OF ACCOUNTS, AND INVESTIGATIONS,

Join The Association of Manufacturing Chemists, Ltd.

which is THE MEDIUM for the TRADE.

PROSPECTUS ON APPLICATION.

PARKIN S. BOOTH,

Accountant to the Association of Manufacturing Chemists, Ltd.

(for the Protection of the Drug, Chemical and Allied Trades).

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Or 35, 36 & 37 EXCHANGE CHAMBERS,

— 2 BIXTETH STREET, LIVERPOOL. —

Telephone: Central 8365 (4 lines).

Saint-Raphael

Tonic, Restorative, Digestive Wine.

Known throughout the World and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children, and the Aged.

DOSE: One Wine-glass after the two principal Meals.

Recommended by—
Prof. BOUCHARDAT, Professor of Hygiene, Paris Faculty of Medicine.
Dr. MacNAUGHTON JONES, London, England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie Rostan Chomel, Velpeau, Requin, Monneret, Troussean, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—Dr. C. Des Barres.

Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE.

To be obtained from all Wholesale Druggists.

TIDMAN'S SEA SALT

The Proprietors have been compelled to revise their prices, which are now as follows. The former prices will be reverted to as soon as market, transit, and labour conditions allow.

NEW PRICE LIST.

	Advertised Price Per doz.	Minimum Retail. Per doz.	Wholesale Per gross.
"PENNY PACKETS" (12 in box)	**1/6**	**1/3**	**10/6**
Twopenny Packets (12 in box) ...	**2/-**	**2/-**	**19/-**
	Each.	Each.	Per doz.
Boxes, about 1½ lbs.	**4d.**	**4d.**	**3/4**
,, ,, 3½ ,, ...	**8d.**	**8d.**	**6/8**
,, ,, 7 ,, ...	**1/2**	**1/2**	**11/6**
,, ,, 14 ,, ...	**2/-**	**2/-**	**20/-**

Four 7 lb. Boxes CARRIAGE PAID for 4/-.
Six 7 lb. Boxes CARRIAGE PAID at 11/6 per doz.
Assorted Orders to value of 10/-, CARRIAGE PAID, any of above sizes.

		Each.	Each.	Each.
No stock to hold	**Bags** of 28 lbs.	**3/6**	**3/6**	**3/-**
	,, 56 ,, ...	**6/6**	**6/6**	**5/6**
	,, 1 cwt.	**12/-**	**12/-**	**10/-**

Carriage Paid.

2½% Discount for Cash on all orders of 20/- and upwards.

Packing Cases extra and returnable. Half value allowed if not returned.

TIDMAN & SON, Ltd., London, E. (Members of P.A.T.A.)

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R. W. GREEFF & CO. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries

(WHOLESALE QUANTITIES ONLY.)

Acetanilid
Amidopyrin
Barbitone
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cinchonine Sulphate and Muriate
Cinchonidine Sulphate
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Eucalyptus Oil—B.P. 70%
Formaldehyde
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
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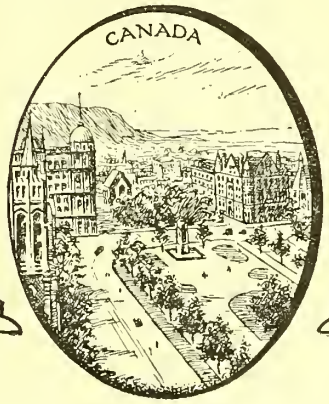
Pepsines, Pancreatin, Peptone and other digestive Ferments
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinine and Salts
Quinine Ethyl Carbonate
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
Tannin Albuminate
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin

R. W. Greeff & Co.,

THAMES HOUSE,
QUEEN ST. PLACE,
LONDON, E. C.



MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street,

ALSO AT

NEW YORK:
R. W. Greeff & Co.,
80 Maiden Lane.

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

"FERROCARNIS"

A pleasantly flavoured solution of iron in organic combination with BRAND'S Concentrated Raw Meat Juice.

Ferrocarnis combines the stimulating properties of meat juice with the tonic effect of iron. This product does not cause constipation, and thus affords a means of administering iron to patients who are unable to take ordinary iron preparations.

PREPARED BY

BRAND & CO., LTD., MAYFAIR WORKS, SOUTH LAMBETH ROAD, S.W.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/-
" " " " "	1/2	10/-
" " " " bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 1/6 12/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

FREEMANS

REAL TURTLE Soup Cubes

"Ready to Serve."

Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

To retail in 1/- Cartons containing 4 Cubes.

THE WATFORD MFG. CO., LTD., *Proprietors of* Freemans Table Dainties, Boisseliers (Boy-se!-a) Chocolates, and Vi-Cocoa, Victoria Works Watford

Freemans READY SOUPS Watford

Excellent in every way; in idea, manufacture, and "get up,"

Maw's Page
S. MAW, SON & SONS
(GPO BOX No 54)
7-12, ALDERSGATE ST.
LONDON, E.C.
NUMBER 263 OCT. 28, 1916
HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS

MAW'S 'PLIANT' HORSEHAIR HAND BRUSH

is going to attain big sales in the very near future.

The "Pliant" is "something better" than a nail brush for the cleansing of dirt-soiled hands. The "Pliant" obviates roughened skin and adds a new delight to the toilet.

Each "Pliant" Hand Brush—a good horsehair scrub mounted on clean, quick-drying loofah—is put up in elegant carton, printed in colours.

One of the most beautiful showcards ever issued by this House, a photo study reproduced by the new photogravure process, is supplied with first orders.

8/6 DOZEN.

3 DOZ. FOR 24/-

USUAL DISCOUNT

SUPPLIES NOW READY

Christmas.

"What are you going to do about Christmas lines—goods suitable for presents, you know?" A customer put this question to us recently.

"What are we going to do"? we echoed. "*We have done all we can*, and made our usual arrangements for the approaching Yuletide season!"

. . .

This customer had doubts. "The vast numbers of men on war service, . . . restricted family incomes, . . . higher cost of living . . ."

Of course he would make some sort of display. One *had* to. . . but. . !"

Certainly, the usual purchasing channels have been somewhat dislocated, but the remarkable figures recently quoted in the Board of Trade Labour Gazette concerning women war workers should dispel all anxiety regarding Christmas trade.

. . .

In industrial occupations alone 287,000 women are serving. Other figures are: Commercial, 201,000; Arsenals, 69,000; Agriculture, 66,000; Civil Service, 38,000; hotels, etc., 31,000; banking, 26,000, and Local Government, 26,000.

In specified employments the number of women now employed is: Railways, 33,000; Cotton trade, 25,000, and Sugar-refining, 2,000

. . .

Here is a big army of potential customers, and one that is constantly growing. The majority of these women have made acquaintances which will necessitate some "little reminders" when Christmas arrives. And there are the men at the Front and in the Navy to be remembered, in addition to the great public still comparatively uninfluenced by present-day monetary problems.

. . .

House of Maw plans, as stated above, are already prepared for the execution of orders for Christmas lines.

Last year the Nation, in the words of the *Daily Telegraph*, "Kept Christmas after the British fashion, giving and receiving presents."

That "British fashion" will endure again.

Capsule

Mail Order Business

INTERESTED?

MANY Clients make good incomes this way.
SOME make fortunes.
YOU can make the former—perhaps the latter.

INVESTIGATE!

May I help you?
I am a Fellow of Inc. Soc. Advt. Consultants
Enough said!

WRITE TO-DAY FOR MY FREE BOOKLET "BUSINESS BY POST"

F.A.Degen, F.I.S.A.C.
Mail Order Specialist for Chemists & Druggists,
C/O THE C.&D. 42, CANNON ST., LONDON, E.C.

FOR SOUND AND PRACTICAL TUITION IT IS UNEXCELLED.

LIVERPOOL SCHOOL OF PHARMACY

FOUNDED IN 1850 by the LIVERPOOL CHEMISTS' ASSOCIATION, and still RECOMMENDED by that Body.

PRINCIPAL, H. HUMPHREYS JONES, Ph.C., F.C.S.

JANUARY MINOR PASS LIST	PRACTICAL...	... 100%
	THEORY ...	... 85%
APRIL MINOR PASS LIST	PRACTICAL...	... 100%
	THEORY ...	... 100%

Full particulars of COURSES for APOTHECARIES' HALL and MINOR Examinations on application to

The PRINCIPAL, 18 COLQUITT STREET, LIVERPOOL.

WESTMINSTER COLLEGE.

'Phone: Brixton 1728.

More Students have passed the Pharmaceutical & Apothecaries' Examinations from this College than from any other School.

NEXT APOTHECARIES' COURSE WILL COMMENCE ON NOVEMBER 1, 1916.

"Students who are unable to attend a School of Pharmacy will find Wills's Universal Postal System a useful means of obtaining a thorough grounding in all the required subjects."—*British and Colonial Druggist.*

"Wills's Universal Postal System provides a complete course of 100 lessons for home students."—*Pharmaceutical Journal.*

WILLS'S UNIVERSAL POSTAL SYSTEM, Fee £1 1 0

For the MAJOR, MINOR, PRELIMINARY, APOTHECARIES' HALL, AND FAIRCHILD EXAMINATIONS.

This System was established in 1872 (for the benefit of Apprentices, Students and Assistants) by G. S. V. WILLS, Ph.C.

For Prospectus, &c., Call, Write or 'Phone to the SECRETARY, 402 Clapham Road, London, S.W.

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COLLEGE OF CHEMISTRY, PHARMACY AND BOTANY,

NEWHALL STREET, BIRMINGHAM.

Principal—G. L. SCOTT, Pharmaceutical Chemist.

FULL-TIME, AFTERNOON & EVENING CLASSES.

THOROUGH UP-TO-DATE & RAPID TUITION.

Full Particulars on Application.

The Northern College of Pharmacy

BURLINGTON STREET, MANCHESTER, S.W.

Principal – E. GOWER ERYANT, F.C.S.

Tutor for Lady Students for the Apothecaries' Hall—Miss E. ROSE, M.P.S.

Postal Tuition for all Pharmaceutical Examinations may be commenced at any time.

A Course for the Apothecaries' Hall Examination commenced on October 26.

All particulars will be sent Post Free on Application.
Telephone: CITY 7698.

ELT'S COLLEGE,

North Finchley, N.

At the Sept. (1916) *Minor Exam. ALL Day Students presented passed the first day, and the Final Pass List was one-fifth of the Minor List.*

ALL Women Students for Minor or Major, during fo r years, have passed their respective Examinations at their first attempt.

At the July "Hall" Exam. ALL women passed who had completed the six months' training and, with one exception, all at first attempt.

The Secretary will send particulars of Day Classes for "Hall" and Minor or of the Modern Postal Courses for all Pharmaceutical Exams.

E.E.Elt.

B.Sc. (Lond.), Principal.

Award, London, 1881: "For Excellence of Quality."

Contractors to H.M. Government, The Crown Agents for the Colonies, etc.

SYNTHETIC OTTOS

"Zinyl" Brand (Regd.)

TRUE SYNTHETIC PRODUCTS (Non-Alcoholic)

These should not be compared with the "cheap" compounds offered, which are merely mixtures of various essential oils. To Buyers who have not hitherto bought these Synthetic Ottos their use will come as a revelation, and as in most instances the Ottos are actually stronger than the essential oils they are intended wholly or partially to replace, they are most economical in use, while their similarity to the actual flowers is surprising. A feature of the "Zinyl" Brand is the natural delicate flower odour, free from the very objectionable and crude characteristics of cheap synthetic perfumes.

HELIOTROPE	8/6 oz.	HYACINTH	9/6 oz.
LILY OF THE VALLEY	13/6 oz.	NEROLI	8/6 oz.
JASMIN	10/6 oz.	VIOLET	10/6 oz.
CARNATION	8/6 oz.	WALLFLOWER	10/6 oz.

ROSE. One of the finest and most delicate Synthetic Ottos on the market. The "Zinyl" Brand passes the most discriminating tests, and is almost indistinguishable from genuine otto; and, though much stronger, costs but a fraction of the price. **13/6 oz.**

FULL LIST ON APPLICATION.

"A Triumph of Modern Synthetic Chemistry."—"C. & D." in 1912.

H. E. STEVENSON & CO.

Manufacturing Chemists and Wholesale Druggists,

122 GREAT SUFFOLK ST., LONDON, S.E.

Mr. Stevenson was for many years a Director of BAISS BROTHERS & STEVENSON, LTD.

FINEST
NORWEGIAN
Medicinal Non-freezing
COD LIVER OIL

The Cheapest & Best on the Market.
Special Facilities. Let us have your Enquiries.

ISAAC SPENCER & CO. (ABERDEEN) LTD. ABERDEEN

"Newbery's"
FRANCIS NEWBERY & SONS LTD

STEPS are not needed by the Pharmacist to reach his stocks of "LE BLANC" SERIES OF HAIR TONICS. It saves labour to display them on counter and well to hand on lower shelves, as they move so quickly.

BAY RHUM & CANTHARIDES.
BAY RHUM & BRILLIANTINE.
ROSEMARY & CANTHARIDINE HAIRWASH.

These are three especially fine lines to stock in two sizes. They allow a particularly wide margin of profit, the net price o each per dozen being only 4/- and 7/-.

In the same category is the "LE BLANC" BAY RHUM, 3/6 and 6/6 doz. net.

Made in our own Laboratories, we can confidently recommend these lines to the retailer.

Both quality of preparation and get-up are good.

The preparations are of a bright darkish amber colour; the perfumes delicate but decided; the bottles nice to handle; and the labelling attractively lithographed in well-blended colours, making good display packages.

These preparations are most beneficial in beautifying and promoting the growth of the hair, and are lines that fulfil the two great requirements of quality and quantity.

CHARTERHOUSE SQUARE, LONDON, E.C.

PRICE 42/- PER GROSS
PACKED IN COLLAPSIBLE TUBES WITH RIBBON ORIFICE

A PERSONAL RECOMMENDATION
THYMOL-TOOTH PASTE
THIS ARTICLE IS SPECIALLY PREPARED TO OUR OWN ORDER
IT IS A SUPERIOR PRODUCT
AND WE HAVE NO HESITATION IN ADVISING OUR CUSTOMERS TO USE IT BEING CONFIDENT OF THEIR APPRECIATION
PER TUBE 7½D

SPECIMEN SHOWCARD GIVEN FREE

HALL FORSTER & CO., LTD.
Manufacturing Chemists
NEWCASTLE-ON-TYNE.

"PLANO" 2D. per tablet
FOR
CHAPPED HANDS & ROUGH SKIN
SELLS AT SIGHT,
pleases your customers, and
YIELDS 100 PER CENT. PROFIT

3 doz. ...	4/-	2 gross ...	2½%	13 to doz., cash with order.
6 doz. ...	7/-	5 gros ...	5%	Carriage paid.
12 doz. ...	13/-	10 gross ...	7½%	

Advertising matter supplied.
MILNER'S CHEMICAL CO., LIVERPOOL.

R. J. REUTER,

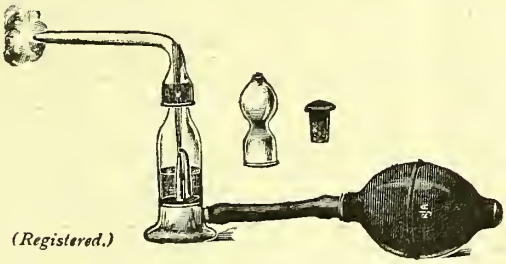
Dealer in, and Manufacturer of, Chemists' Sundries,

69 CARTER LANE. LONDON, E.C.

The House for Home and Export Trade.

WE SOLICIT YOUR INQUIRIES FOR EVERY DESCRIPTION OF THROAT SPRAYS, ATOMIZERS & NEBULIZERS, OF WHICH WE HOLD VARIED UP-TO-DATE STOCKS.

Special Seasonable Lines.



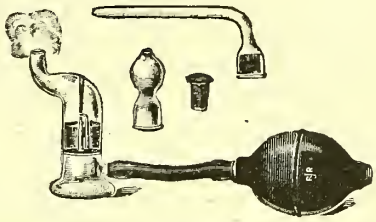
(Registered.)

No. 1. "ARISTON" All Glass

(ORDINARY).

No. 1 Pattern is a Direct Nebulizer, suitable for use with either oily or heavy aqueous solutions.

PRICE with throat piece, **30/-** per doz. (subject).



(Registered.)

No. 2. "ARISTON" All Glass

(IMPROVED).

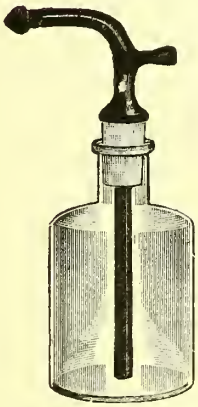
A new production with an Indirect Action. The oil is thrown on to the roof of the glass chamber with great force and thus further sub-divided, a copious and perfectly nebulous cloud being evolved.

PRICE with throat piece, **36/-** per doz. (subject).

Owing to **THE PECULIAR CONSTRUCTION OF THE BASE,** these Nebulizers will respond to the slightest pressure of the bellows, the air being pumped into the special chamber, and thus multiplying by many times the pressure.

THEY WILL PULVERIZE THE HEAVIEST OILS.

They may be fitted with spare pieces for nasal, post-nasal or laryngeal treatment, to order, 3/- per dozen extra per piece.



R. 19.
R. 20.
R. 21.

R. 4. NASAL SPRAY. Vulcanite mount with thick polished plunger, single ball American pattern bellows, fitted to 2 oz. "W" N.M. round, each in box, complete, doz. **22/-**

R. 19. THROAT SPRAY. Polished vulcanite mount fitted with single red rubber American pattern bellows, 1½ oz. round shouldered bottle, each in box complete, doz. **16/9**

R. 20. THROAT SPRAY. Polished vulcanite mount fitted with single red rubber American pattern bellows, 1½ oz. "W" N.M. round, each in box complete, doz. **20/-**

R. 21. THROAT SPRAY. Similar to R. 20, but with larger mount, fitted with single red rubber American pattern bellows, 2 oz. "W" N.M. Round, each in box complete ... ... doz. **22/-**

R. 4.

SPECIAL QUOTATIONS FOR QUANTITIES.

It Will Pay to Stock "Carmex"

MOTHERS everywhere are reading the "Carmex" advertisements, now appearing in the leading journals appealing to women.

Are you ready to supply the demand and secure the profits which this publicity is bound to create?

"Carmex" is the New Remedy for Infants' ailments, which, once it has been tried, will sell again on merit alone.

Link up your pharmacy with our advertising by displaying "Carmex" on the counter, in the window or the showcase.

Order a supply of "Carmex" to-day through your usual wholesale house, or direct from us.

P.A.T.A. min. retail, 1/3 - - per doz. 11/-

Carmex

Turns Baby's Tears to Smiles

William Browning & Co.,

Manufacturing Chemists, Albert Works, Park Street, London, N.W.

Telephone: Hampstead 4046. *Telegrams: "Semprolin, Norwest, London."*

"LESCOL" FLORAL PERFUMES

NOTE: Notwithstanding the shortage in cut glass and moulded bottles and fancy cases, we beg to inform you that we are exceedingly well placed, but as we are already receiving orders for Xmas trade would advise you to order early to avoid disappointment.

□ □ □

On receipt of a postcard stating requirements, our representatives will receive instructions to call with a full range of Samples.

LESCOL PERFUMERY CO., Lomond Grove, Camberwell Green, LONDON, S.E.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF 1916 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

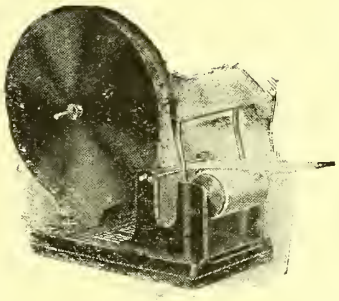
Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB, LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

HOW do you seal your Parcels?



This little machine, the "DEMON," will secure them with Gummed Paper Tape NEATLY, QUICKLY & EFFECTIVELY at a fraction of the cost of string or sealing-wax.

Send a postcard for particulars to

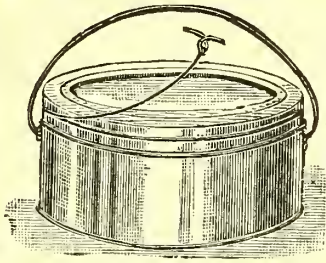
FAIRE BROS & CO., Ltd., Leicester

And 19 Fore Street, London, E.C.

The Northern Tin Canister Works,

6 Mersey Street,

LIVERPOOL.



We manufacture for the paint trade in all its branches—Decorated and Plain work.

TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

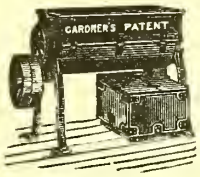
Patent Air Tight Slip-lid Tin for Export.

Prompt Deliveries Assured.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust



FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

FINAL NOTICE

5% Cash Bonus

For Retailers again this year

We have pleasure in announcing that we are again offering a 5% cash bonus on the gross value of all orders for Bovril received up to October 31st, inclusive. (Goods at net prices excluded.)

Now is the time to order your stock of Bovril. Although Beef has much increased in price, the price of Bovril remains unchanged. This should mean much larger sales this season.

It is therefore advisable to buy on a larger scale than usual and to order your stocks early and so avoid any chance of delay in delivery.

For full particulars of trade terms and this year's 5% cash bonus apply to Bovril Ltd., 148-166, Old Street, London, E.C.

BOVRIL

S.H.B.

BAISS BROTHERS & Company, Ltd.

SURGICAL INSTRUMENTS AND HOSPITAL FURNITURE.

DRESSINGS.

STERILISERS FOR DRESSINGS AND INSTRUMENTS.

WATER BEDS, AIR CUSHIONS AND ENEMAS.

DISPENSING SCALES AND WEIGHING MACHINES.

SURGEONS' AND MIDWIVES' BAGS.

VETERINARY INSTRUMENTS, ETC.

NOTICE.

We have again acquired large additional premises in Bermondsey, and are considerably increasing our manufacturing output; we hope our friends will avail themselves of these facilities for the efficient supply of their requirements.

FINE CHEMICALS OF ALL DESCRIPTIONS.

STANDARDISED TINCTURES AND EXTRACTS.

CONCENTRATED INFUSIONS AND DECOCTIONS.

DISINFECTANTS.

POWDERED DRUGS, STANDARDISED.

PILLS AND COMPRESSED TABLETS.

CONCENTRATED SOLUBLE ESSENCES.

CHEMISTS' PACKED SPECIALITIES.

EMULSION OF COD LIVER OIL, ETC.

PRICE LISTS IN VARIOUS LANGUAGES.

BAISS BROTHERS & COMPANY, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments,

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

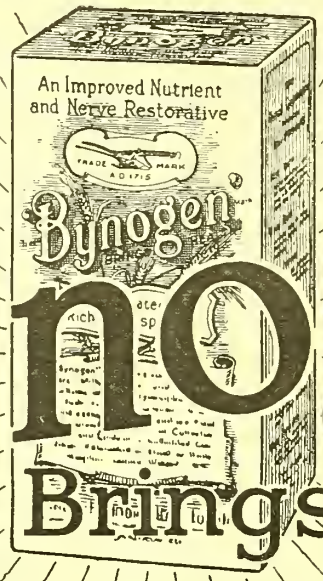
174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.

Drug and Herb Farm: CARSHALTON, SURREY. Drug Mills: Grange Works, BERMONDSEY. Established 1833.

The Improved Casein-Glycerophosphate Food

'Bynogen'

Trade Mark



Brings Health

An Easily Digested Nerve Food Rich in Phosphorus

Composition of "Bynogen."

"Bynogen" is a combination of pure Milk Protein, 75 per cent., and specially prepared Dextrin-Maltose, 20 per cent., with 2 per cent. each of the Glycerophosphates of Soda and Lime, and 1 per cent. of Glycerophosphate of Magnesia.

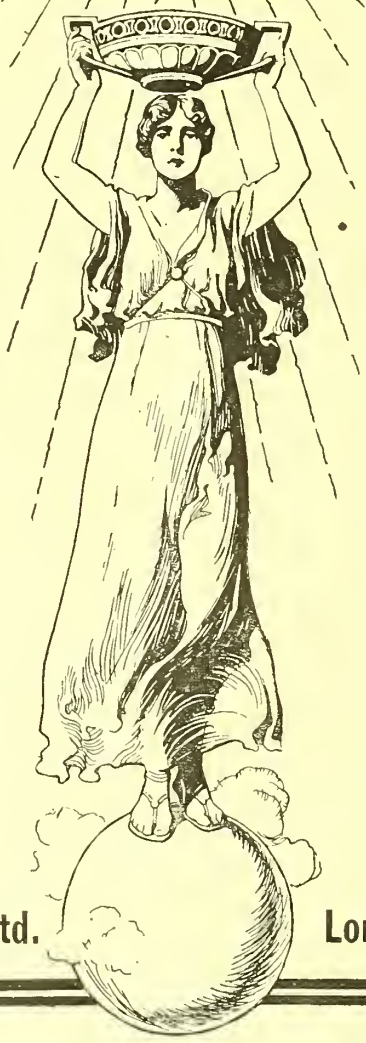
Uses of "Bynogen."

"Bynogen" is indicated in all Enfeebled Conditions, in Convalescence after Severe Illness, Mental and Nervous Exhaustion due to worry or overwork, Insomnia, Physical Fatigue, Wasting Diseases, Anæmia, Digestive Troubles, etc.

"Bynogen" is very helpful to Nursing Mothers for overcoming the strain caused by breast feeding.

Minimum Retail Prices: 1/9 and 3/- per bottle.

Gross Wholesale Prices: 17/- and 29/- per doz. bottles respectively.



A Concentrated Nutrient and Restorative

Advantages of "Bynogen."

"Bynogen" possesses a most attractive flavour and thereby overcomes the objection hitherto experienced in other somewhat similar products.

"Bynogen" strengthens digestion, improves nutrition, and does not cause constipation.

"Bynogen" is delicious when sprinkled on puddings, toast, etc. It mixes readily with milk and other fluids, or it may be eaten plain if desired.

Profit on "Bynogen."

"Bynogen" yields a profit on return of 25% monthly a/c terms. When "Bynogen" forms part of a £5 carriage paid general order for the "Allenburys" Specialities the profit on "Bynogen" is increased to 27½%

SAMPLES AND DESCRIPTIVE LEAFLETS FREE ON REQUEST

Allen & Hanburys Ltd. Lombard St., London.

STERN'S

Liquid Paraffin B.P.

White Oils,
Half-White and Coloured Mineral Oils

Petroleum Jelly B.P.

STERN SONNEBORN OIL CO., LTD.
Royal London House, FINSBURY SQUARE, LONDON, E.C.

S.V.M.
Best Quality Only.

RANDALL & SON,
Limited;
Wholesale and Export Druggists,
SOUTHAMPTON

METHYLATED SPIRIT
OILS AND CHEMICALS.
Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, Ltd., BIRMINGHAM

CARMINE

Guaranteed Pure Cochineal, and free from any added matter or adulteration.

OTTO OF ROSE

Guaranteed Absolutely Pure under Analysis.

Also Headquarters for

Gelatines (leaf, sheet, photographic and powder), Glues, Olive & Nut Oils, Marseilles and Pure Olive Oil Soaps, Lavender Oil and Spike, Lemon and Orange, Liquorice (block and stick), Fine Colours, etc.

Telegrams : "Forbrodona London."

Tel. Nos., London Wall 6076.
" " 6077.

FORWOOD BROS. & DONALDSON L.TD

ROPEMAKER ST., FINSBURY, LONDON, E.C.

Bright and Soluble

SCALE PREPARATIONS

Answering to all B.P. requirements.

IRON & AMMONIUM CITRATE
IRON & QUININE CITRATE

Samples and Prices
to all
Wholesale Buyers.

STAFFORD ALLEN
& SONS, LIMITED,

Cowper Street, Finsbury, London, E.C.

Telegrams:
"Persic, Finsquare, London."

Telephone:
London Wall 6556 (3 lines).

A Beautiful "Entente" Adherent to "Harlene Hair Drill."

In these War times it is indeed a pleasure to reproduce the photo of one of the many thousands of Entente adherents to "Harlene Hair Drill." Not only throughout the British Empire, but in all our Allied countries, "Harlene Hair Drill" has always been extremely popular, and the products of Edwards' Harlene, Ltd., have always received the most cordial welcome from the public.

Photo: Rita Martin.

Miss Gina Palerme, the beautiful French actress — a cordial supporter of "Harlene Hair Drill."

TO-DAY, in response to the Press announcements of Edwards' Harlene, Ltd., the demand for their products is wider than ever, and no Chemist or Store can afford to be without this unique line of toilet preparations.

HARLENE FOR THE HAIR.

ASTOL for Grey-Haired Men and Women
ASTOL SHAVING CREAM
CREMEX SHAMPOO POWDERS
ASTINOL AROMATIC FLUID
ASTINE SHAVING STICKS

FOLLOW THE TIDE OF SUCCESS.

Watch the Great Free Gift Advertising Campaign that brings the customers to your shop.

For Particulars, Advertising Literature, &c., write to

EDWARDS' HARLENE, Ltd.

20, 22, 24 & 26 LAMB'S CONDUIT ST., LONDON, W.C.

LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.
LONDON AGENTS:
WILCOX, JOZEAU & CO., 49, Haymarket, S.W.

CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.
THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.
Sold by all Chemists.
Wholesale: 8, Rue Vivienne.
PARIS.

MORRHUOL CHAPOTEAUT

CAPSULES
MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.
It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.
SOLD BY ALL DRUGGISTS.

CHANDRON'S
DROPS
(Gouttes des Colonies)
A harmless antiseptic
preventative against CHOLERA
FERMENTATION - INDIGESTION
& other intestinal disturbances.
SOLD BY ALL CHEMISTS

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

"VASELINE"

AND

RELIABILITY

"VASELINE" when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and, where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds, which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

CHESEBROUGH MANUFACTURING

COMPANY (Consolidated)

42 Holborn Viaduct, London, E.C.

Complete Price List of all the "Vaseline" Preparations will be sent post free on application

STOVAINE

THE LEAST TOXIC OF LOCAL ANÆSTHETICS

USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

LES ETABLISSEMENTS POULENC FRERES

92, RUE VIEILLE DU TEMPLE, PARIS.

Dinkie

The Dainty Deodorant

A new and attractive line that is sure to enjoy good sales. A greaseless Cream that takes the odour out of perspiration. Daintily packed in opal jars. Ask your wholesaler.

DECOLENE

The liquid hair remover

A new idea in depilatories. Simple and safe to use—effective in use. Pleasant and harmless. Invaluable during the vogue of the décoletté gown. Daintily packed. Ask your wholesaler.

TRADE TERMS

Satisfaction Guaranteed or Money back

DINKIE:
Advertised, and min. Retail Price . . . **2/6**
Trade 20/- doz.

DECOLENE:
Advertised, and min. Retail Price . . . **3/9**
Trade 30/- doz.

Monthly Accounts nett. 5% Cash with Order.
Carriage Paid on £1 lots. Particulars on request.

Trade Mark

ROBARTES LTD.
128 Jermyn Street, London, S.W.
Telephone: Gerrard 3672

Samples of our

BRILLIANTINES

Are at Your Disposal.

No. 1,	1¼ oz.	-	3/9 doz.
,, 1a,	2½ ,,	-	6/- ,,
,, 3,	1¼ ,,	-	3/6 ,,
,, 3a,	2½ ,,	-	5/6 ,,

Less 5 per cent. for cash, 30 days.

Write To-day to—

Essona Perfumery Co.,

English Perfumers, WIMBLEDON.

T. GUEST & Co.

LIMITED.

OUR WELL KNOWN

WINTER

SPECIALITIES

PACKED IN ATTRACTIVE TINS
FOR COUNTER DISPLAY.

6d. Tins Bismuthated Magnesia Lozenges

6d. „ Iodised Throat Tablets

6d. „ Compressed Pine Tablets

4½d. „ Bronchial Wafers

3d. „ Brompton Hospital Lozenges

4d. & 6d. Antiseptic Pastilles

4½d. Tins Formalin and Mint Tablets

3d. „ Liquorice & Menthol Pellets

7½d. „ Quinine and Phosphorus Tablets

1 Gross assorted order Carriage Paid.
Write us for Samples and Prices.

CARRUTHERS STREET,
Ancoats, MANCHESTER

Licoricine

ACTS LIKE MAGIC

(EST. OVER 50 YEARS)

FOR

COUGHS & COLDS,

ASTHMA, BRONCHITIS, WHOOPING COUGH, &c.

TRADE MARK.

Proprietors: MANDALL & CO., LTD.
Tower Works, STOCKTON-ON-TEES.

HONEY! HONEY!

"JOYBELLS" HONEY.
The choicest and most delicious honey procurable. Screw-top Glass Jars, **9s. 9d.** and **5s. 9d.** per doz.
"JOYBELLS" HONEY. Red Earthenware Pots, **9s. 3d.** and **5s. 3d.** per doz.; in Bulk, **8½d.** per lb. Tins charged and returnable.
The Institute of Hygiene state: "We are satisfied that 'Joybells' Honey is a genuine product, possesses the distinctive flavour imparted to bee honey, and is a most pleasant and wholesome article for general table use."

"SUMMERLAND" HONEY.
Equals that usually sold as Finest Clover Honey. Screw-top Glass Jars, **8s. 9d.** and **5s. 6d.** per doz. In Bulk, **7½d.** per lb.

"SWEET FLOWER BELL" HONEY.
Fine Quality. Clean Flavour. Tie-Over Red Earthenware Pots, **7s. 9d.** and **4s. 9d.** per doz. In Bulk, **6½d.** per lb.

BEESWAX. Choice quality, **1s. 8d.** per lb.; 1-oz. Moulds, **1s 6d.** per doz.
Carriage paid anywhere in England on orders of £2 value. Samples 3d.

STANDARD HEALTH FOOD COMPANY
(With which is incorporated The Berkshire Honey Co.)
Honey Specialists. READING, BERKS.

In all size jars

And in bulk.

INVITE INQUIRIES. LOWEST RATES.
WHOLESALE AND RETAIL.

PREMIER DRUG CO., Ltd. 29 Cannon St., MANCHESTER

No. 77

BRITISH Eau de Cologne

In Square Bottles

2 oz.	...	11/- doz.
4 ,,	...	21/6 ,,
8 ,,	...	41/6 ,,

In Wickered Bottles

½ pint	...	34/6 doz.
1 ,,	...	65/- ,,
2 ,,	...	122/- ,,

Write for Samples. Showcards supplied.

Manufactured only by

WILLIAM TOOGOOD, Ltd.,

77 Southwark Street, London, S.E.

We have pleasure in making the following special offers which are of interest just now:—

Acid Cresylic, special quality ...	4/6 per gall.
Adalin	20/- per oz.
Allantoin	14/- ,,
Anilin Oil, good, 28 lbs.	4/6 per lb.
Atophan Substitute Tablets, ½ gm. each, 1 lb. lots	80/- ,,
Benzidine	10/- per oz.
Benzonaphthol (forward delivery)	68/- per lb.
Betanaphthol	14/- ,,
Caffeine	60/- ,,
Chloralamide	60/- ,,
Collargol, 15 grain tubes	2/6 each
Cotarnine HCl. (Stypticin) ...	30/- per oz.
Creta gall. pulv. (2 cwt. bags) ...	30/- each
Digitalis Fol. Ang.	2/- per lb.
Emetine-Bismuth-Iodide	100/- per oz.
Stearettes, 3 grain bots. of 12	10/- each;
25	20/-
1 grain ... 12	8/-
25	16/-
Ferrum Redact. 12/6 lb.; 7 lbs. @	11/- per lb.
Formates (all varieties as list).	Details on application.
Glucose, white lump	40/- per cwt
Ichthyol Ammon, 7 lbs.	4/6 per lb.
,, Sodium	9/- ,,
Lith. Salicyl	25/- ,,
Mag. Glycerophosph.	15/- ,,
Mag. Sulph. B.P. opt., cwt. kegs	23/- per cwt
Mannite	3/- per oz.
Mercury Succinimide	120/- per lb.
Moss, Compressed.	Prices on receipt of card
Nux Vomica, pulv.	-/8 per lb.
Oleum Eucalypti globul. Wtrs. at	3/- ,,
,, Limonis, B.P.	3/9 ,,
,, Sinapis Volat., genuine ...	80/- ,,
Paraffin liq.	11/9 per gall.
,, molle flav. B.P., in barls.	45/- per cwt.
Paraform	4/6 per lb.
Peptone bacteriological pulv. ...	16/- ,,
Phenol-Sulphone-Phthaleine ...	7/6 per gm.
Potass. ferricyanid. (rub.) ...	17/6 per lb.
,, ferrocyanid. (flav.) ...	5/- ,,
Resorcin	140/- ,,
,, Acetate	16/- per oz.
Silver proteinate, 10% silver ...	29/- per lb.
Sod. Cacodyl	60/- ,,
,, Gynocardate	As per price list
,, Perborate	3/- per lb.
Terpine Hyd.	3/6 ,,
Thiosinamin	90/- ,,
Tuberculins, British, full series.	List on request
Urea	7/- per lb.
Vaccines, Wimpole.	Special list on request.
Yeast Powder (Fæxin)	10/- per lb.
Zinc Valerianate Cryst.	40/- ,,

These prices are for the quantities stated. Less quantities at slight increase. All without engagement. Goods at London.

Telegraphic Address: "Martindale, Chemist, London."
Telephone Nos.: Gerrard 4 88; Paddington 1797.

W. MARTINDALE

Manufacturing Chemist,

10 NEW CAVENDISH ST., LONDON, W.

IN FIVE TINTS: White, Cream, Pink, Flesh and Brunette.

TETLOW'S "SWAN DOWN" FACE POWDER.

"SWAN DOWN" enjoys the largest sale of any Face Powder in the World, and after 35 years on this market the demand grows every month.

74/- per Gross.

Bonus of 2 dozen with each gross.

Minimum Retail Price, 7½d. per box.

P.A.T.A.

Profit, 29/- per gross.

"SWAN DOWN" will be liberally advertised in the Press during the next twelve months, and its uses and quality will be introduced to several millions of ladies every month.

SECURE YOUR SHARE OF THE DEMAND by ordering adequate stocks. Remember that every customer you make for "SWAN DOWN" is a satisfied and permanent one

HENRY C. QUELCH & Co

Ludgate Square E.C

LET US SEND YOU MATERIALS FOR WINDOW SHOW DISPLAY— SHOWCARDS, HANDBILLS AND OTHER ADVERTISING MATTER

PETROLEUM JELLY

We are importers of finest American Jelly, Red, Yellow and White. Guaranteed B.P. Inquiries esteemed also for

GUMS. WAXES. DEXTRINE.

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON." Telephone: AVENUE 8057.

EVERY GENUINE PACKAGE

BEARS THIS LABEL

EWEN'S LARD

is the ONLY LARD that is made exclusively for pharmaceutical and perfumery preparations and is the **BEST AND MOST RELIABLE** Guaranteed B.P. Lard on the Market.

Solyptol Soap

A high-grade Toilet Soap of marked Antiseptic properties. Non-irritating. Agreeably perfumed. Lathers in hard water. Assists the complexion. Heals cuts & abrasions. Invaluable in the Nursery.

TOILET SOAP, 10d. SHAVING SOAP, 10d.

A READY SELLER WITH GOOD PROFIT.

Chemists should write for terms.

F. H. FAULDING & CO., 54 Gt. Tower St., London, E.C. Adelaide, Perth, Sydney, Australia.

Stocked by all Patent Medicine Vendors.

Bismuth-Formic-Iodide Comp. Powder

The Ideal Dry Surgical Dressing

Bismuth-Formic-Iodide Comp. Powder is indicated in all acute or chronic inflammations of the skin and subcutaneous tissues, such as exist in specific or non-specific skin diseases, ulcers, wounds, and suppurating surfaces, burns, scalds, abscesses, etc. It is of particular value in the treatment of chronic indolent leg-ulcers and in local diseases of a markedly inflammatory and rapidly progressive type, such as serpiginous and phagadenic ulcerations, existing independently of or complicating venereal diseases.

Bismuth-Formic-Iodide Comp. is an aseptic and unusually antiseptic astringent alterative, analgesic and stimulating dry dressing for wounds, ulcerations, discharging sores, skin diseases, etc.

SEND FOR SAMPLE

Tetanus Antitoxin, Antistreptococcic Serum, Antimeningitis Serum and a full line of Biological Products

H. K. MULFORD COMPANY, Philadelphia, U. S. A.

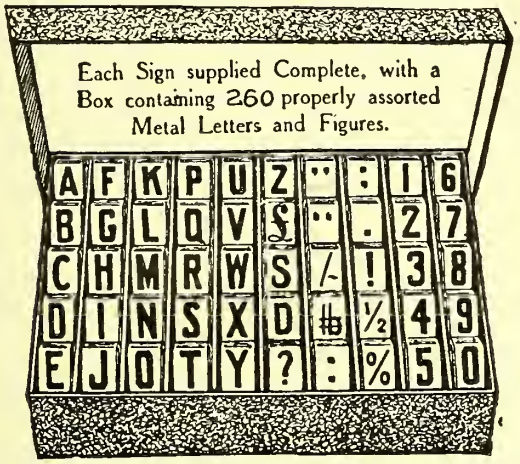
Manufacturing and Biological Chemists

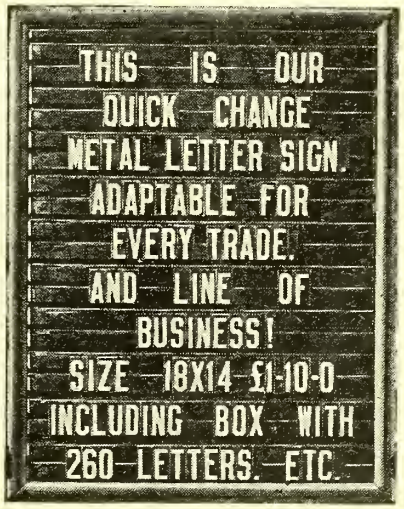
LONDON: 119 HIGH HOLBORN, W. C.

Distributing Agents: THOMAS CHRISTY & CO., Old Swan Lane, London, E. C.

THE "SIGN" OF THE TIMES.

Specially Suitable for Chemists.





Wholesale Houses and Buying Agents can have special liberal terms.

WRITE FOR PARTICULARS.

THE

QUICK CHANGE (Loose Letter) SIGN CO.

5 CLERKENWELL ROAD, LONDON, E.C.

Tel. No. 4432 Central.

An effective and refined method of attracting attention.

Wording can be changed as often as desired.

SIMPLE. ATTRACTIVE. NEAT.

Always New. Everchangeable.

WHOLESALER! RETAILER! You must Read this ANNOUNCEMENT.

EVERY ENGLISH CHEMIST WHO ORDERS SIX DOZEN BOXES OF OUR "'RED BAND" BISMUTHATED MAGNESIA, AT 24/- PER GROSS FROM HIS LOCAL WHOLESALER, WILL RECEIVE A THREE DOZEN BOX FREE OF CHARGE.

(THIS OFFER IS ONLY OPEN FOR 10 DAYS FROM DATE OF ISSUE.)

"RED BAND"

Bismuthated Magnesia

Contains 10% Bismuth Carb. per 3D. Box. Not liable to Duty.

BOLD ATTRACTIVE SHOWCARDS AND POSTERS ARE GIVEN WITH EACH 6 DOZEN ORDER. SEE THAT YOU GET THEM!

REPEATS COMMENCE ONE WEEK AFTER FIRST SALE IS MADE, AND BY USING SHOWCARDS AND POSTER YOU CAN SELL THE NINE DOZEN IN A WEEK

ORDER NOW! AND BE THE FIRST IN YOUR DISTRICT.

WHOLESALERS! THERE WILL BE A GREAT DEMAND FOR THIS POPULAR PACKING, AND WE ADVISE YOU TO INCREASE YOUR STOCKS. IF YOU HAVE NOT HANDLED THIS SPLENDID SELLING LINE, WRITE AT ONCE FOR TERMS, YOU WILL BE SATISFIED WITH THE MARGIN. WE SUPPLY THE FREE BONUS BOXES.

OVER 200,000 Boxes have been sold in Scotland.

RETAILER! SHOULD YOU HAVE ANY DIFFICULTY IN PROCURING OUR SPECIALITY, SEND P.O.O. OR CHEQUE VALUE 12/-, AND WE WILL SEND THE 6 DOZEN BOXES, PLUS 3 DOZEN BONUS, PER RETURN, CARRIAGE PAID.

Enclose name of local Wholesale House.

RED BAND CHEMICAL CO., 186 DALRY ROAD, EDINBURGH.

A CONVINCING TESTIMONIAL
has come to hand in regard to a

"MASTER" BRAND HOT WATER BOTTLE

In constant use for five and a half years in all parts of the world.

The same quality and value is maintained.

Piece or weight prices on application.

The most comprehensive line in Hot Water Bottle Covers

IS ALSO OFFERED BY

F. SCHUTZE & CO. LTD.
Black Bull Works,
Caledonian Market,
LONDON, N.

THE

BRITISH WAX REFINING

COMPANY, LIMITED.

WHITE BEESWAX
YELLOW BEESWAX

Slabs, Bars, Tablets or Discs

CERESINE WAX
Bleached Carnauba Wax
Carnauba Wax Residues

All Waxes Refined, Bleached and Manufactured at our Works, REDHILL, SURREY.

Registered Office:
5 RANGOON ST., LONDON, E.C.

The ARMY which WINS every time

and wins on Quality, not price. The genuine THERMOS may be a little more costly but it gives many times the Value of the cut-price imitation. Over Ten Million THERMOS Vessels are in use, and each one bought to-day has the experience and knowledge of making the previous ten million or so focussed into its manufacture. Prices are standardised; profits are liberal; sales are fast and frequent.

Write for new Catalogue.

THERMOS LTD

8 LONG LANE,
ALDERSGATE STREET,
LONDON, E.C.

Phone: Central 5947.
Wire: "Ultraism London."

SUPPORT HOME INDUSTRIES.

Estd. 1777.

C.B.KENT & SONS LTD
BEST BRITISH
BRUSHES

Incd. 1900.

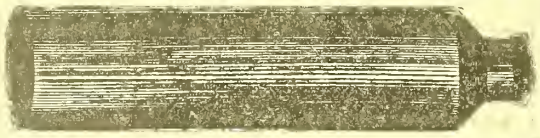
BUY KENT'S BRUSHES.

Diary, 1916, pp. 96, 97.
Summer Issue, 1916, pp. 66, 67.

BROOKS, PEEL & CO., LTD.

Makers of Collapsible Tubes and Filling Machines for same. Patentees of Sprinkler and other Stoppers for Perfumes, Washes, &c. Screw Caps.

24 City Road, Finsbury Square, London, E.C.



ZEAL'S REGISTERED

Clinical Thermometer

The "REPELLO"

Requires no shaking down. *Guaranteed Accurate.*

A 30-Second Pushed back in an instant.

Good Selling Lines for Chemists

NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying Clinical Thermometer on the Market.

IN FOCUS.

OUT OF FOCUS.

The square mark engraved on lens front locates the Mercury Column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

G. H. ZEAL, 82 Turnmill St., LONDON, E.C.

Wholesale Manufacturer of

CLINICAL THERMOMETERS.

A SELECTION OF 50 KINDS.

Established 1888. LIST POST FREE. Telephone No. 12438 Central.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

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Coming Events.

Sunday, October 29.

Pharmacist Volunteer Training Corps, Brockwell Park, Herne Hill, London, S.E., at 10 A.M. Company parade and inspection of exhibition work by Lieut.-Colonel Monckton Copeman, C.i.e. Hygiene Department, R.A.M. College.

Wednesday, November 1.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Pharmacist Volunteer Training Corps, 17 Bloomsbury Square, London, W.C., at 2.45 P.M. Bacteriology class by Dr. E. Burnet. Also on Thursday.

Thursday, November 2.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. The papers to be communicated include the following: "The Reaction between Methyl Iodide and some Metallic Cyanides," and "Some Reactions Produced by Mercuric Iodide" by Mr. E. G. J. Hartley.

North London Pharmacists' Association, St. Padarn's Hall, Salterton Road, Holloway, N., at 3 P.M. Ordinary meeting.

It has been Officially Announced in the House of Commons that economy in the use of stimulants and all other hospital supplies is receiving attention at the hands of a special Committee presided over by Major Godfrey Collins, and that the amount of alcohol is limited to what is medicinally necessary.

European War News.

Import and Export Notices.

Canada.—Certificates of Origin and Interest in the same form as that prescribed for goods imported into the United Kingdom (*C. & D.*, September 30, p. 34) are required in respect of all goods imported from Norway, Sweden, Denmark, Holland, and Switzerland.

France.—The importation into France and Algeria of wine-lees and crude tartar produced in or exported from foreign countries is prohibited.—The exportation of radio-active ores containing uranium to the United Kingdom, etc., is now permitted without special authorisation.

Italy.—Beeswax has been added to the list of prohibited exports. The Minister of Finance has authorised the duty-free importation into Italy up to June 30, 1917, of tea residues to be employed in the manufacture of caffeine. Olive oil, which was on the list of prohibited exports, has now been removed.

Netherlands.—Honey has been added to the list of prohibited exports.

Norway.—Condensed milk has been placed on the list of prohibited exports.

Sweden.—The following articles have been added to the list of goods the exportation of which from Sweden to all countries and also in transit through Sweden is now prohibited: Wood-tar and pitch thereof; tar-water; tar-oils; purple ore containing at least 1 per cent. copper; powder rouge, cosmetics; gelatin, in thin, flexible sheets, also manufactures of gelatin.

United Kingdom.—The Foreign Office announce that no further licences will be issued in the United Kingdom or in the British Possessions overseas for the exportation to Holland of calcium carbide until further notice, of alum and sulphate of alumina until December 31. Privy Council licences will similarly not be accepted by the Customs as authority for shipment without special authorisation from the War Trade Department. It is announced that the restrictions on the importation of vaseline into Denmark are now cancelled.—Agar-agar has been added to Class C and basic slag and superphosphates to Class A of the prohibited and restricted exports.

Goods of Suspected Enemy Origin.

The fourth Supplement to the "London Gazette," October 20, is devoted to particulars of goods which have been seized under the Customs law as being of suspected enemy origin. Chemicals, essential oils, and kindred goods were included in one or other shipment made by the following Copenhagen firms: Adams Express Co., American Express Co., L. V. Andersen, W. Hanssen, M. P. Henricksen, Marx Koppel, Carl Krarup, A. Malm, Carl Lassens Filial, N. P. Petersen, Emil Stephensen, Emil Thalbitzer, and Wessoe, Ltd. The addresses of the consignees are given in full, most of them being resident in Spain and South America. A copy of the Supplement can be obtained from Wyman & Sons, Ltd., for fourpence.

"Our Day."

A public appeal to assist the splendid work in caring for the wounded of our fighting forces that is being carried on by the British Red Cross Society in conjunction with the Order of St. John of Jerusalem, was made on Thursday, October 19, when the funds benefited by a large contribution, the exact amount of which will not be known until the end of this week. Among the sums received is 1,565*l.* 13*s.* collected by Mr. C. W. Engleheart at the London Commercial Sale Rooms, Mincing Lane, E.C. The contributions from the drug-trade include Fletcher, Fletcher & Co., Ltd., 200*l.*; Colonel Probyn, 200*l.*; Burroughs Wellcome & Co., 105*l.* The fund also benefits by 250*l.*, being half the sum raised in the drug-auction by the sale of twenty-eight trays of muscatels, the remaining half going to the "Daily Telegraph" Christmas Pudding Fund. The goods were sold by Bowyer & Bartleet, and Mr. F. G. Annison, of that firm, bought the first tray for 12*l.* 10*s.*, and the last one for 30*l.*, subsequently selling the latter three times over. One lot was resold seven and other lots several times. The buyers were as follows:

Mr. Hermann Buchler, purchases up to 50*l.*; Mr. R. de Q. Quincey, purchases up to 50*l.*; Mr. W. M. Happé, 31*l.*; Mr. H. C. Wright (Wright, Layman & Umney, Ltd.), purchases up to 25*l.*; Horner & Son, 16*l.* 5*s.*; Mr. E. A. Webb (Evans Sons Lescher & Webb, Ltd.), 16*l.*; Mr. J. H. Z. Stallman, 15*l.* 15*s.*; Mr. R. Korkis, 12*l.* 12*s.*; Mr. A. Naumann and Mr. M. A. Frischmann, 12*l.* each; Mr. P. Whipman, Mr. F. Starke, and G. F. Sutton, Sons & Co., 11*l.* each; Mr. Alfred Joensson, Mr. Von Berg, Willows, Francis, Butler & Thompson, Ltd., Mr. H. E. King (T. Hodgkinson, Prestons & King), Mr. S. Morgan (C. R. Harker, Stagg & Morgan), Mr. E. A. Smee, Sparks, White & Co., Ltd., Mr. W. H. Knight, Mr. R. M. Lambert (Saml. Lambert & Co.), Mr.

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Personalia.

A "Gazette" notice states that Lieutenant W. Gilbert Saunders, of the King's Liverpool Regiment, was appointed captain and adjutant of the fifth battalion of the regiment before his death.

Private Gabriel Flach, who is in the Motor Transport Division of the Army Service Corps in Salonica, and a partner with Mr. J. Flach, 16 Water Lane, London, E.C., has been suffering from malaria for some time, but is now progressing favourably.

Dr. M. O. Forster, F.R.S., director of British Dyes, Ltd., wrote to "The Star" on Monday about "The Chemical Revolution." It is one of "My Changed Opinions" articles, and Dr. Forster's point is that our chemists as well as our manufacturers were at fault in not adapting their ways to the changed conditions of the times.

Mr. T. Edward Lescher, of Evans Sons Lescher & Webb, Ltd., speaking to a "Daily Express" man last week in regard to drugs and synthetics, said: "It cost Germany twenty years' labour to build up her great trade in certain drugs. We can scarcely expect to reach our best output in two years. There is danger that the infant industry in synthetic drugs may be strangled unless a means be devised to prevent German dumping after the war." In this declaration of opinion Mr. Lescher followed the advice of the Paris Economic Conference.

Corporal Richard Hayward Robinson, R.A.M.C., the son of Mr. R. F. W. Robinson, dispensing chemist, Seacombe, upon whom the Military Medal has been conferred for zeal and courage (see *C. & D.*, October 21, p. 33), was educated at the Wallasey Grammar School, and followed in the footsteps of his elder brother (a L.D.S.) by entering the dental profession, being apprenticed to a dental practitioner in the town, who is now a major in the Army. As soon as the war began Mr. R. H. Robinson joined the R.A.M.C., and has served in France and Salonika. The corporal's portrait has been widely printed during the past week, one with a smile being used, as it is most mirth-provoking.

Corporal Robinson.

Captain Frank Graham Lescher, of the R.A.M.C. Special Reserve, has been awarded the Military Cross for initiative in searching for wounded under heavy shell-fire. The "Gazette" notice also states that Captain Lescher repeatedly led his bearers through heavy barrage, and continued his work until he had got all the wounded to safety. Captain Lescher is a son of Mr. F. Harwood Lescher, and younger brother of Mr. T. Edward Lescher (Evans Sons Lescher & Webb, Ltd). He was educated at Stoneyhurst College and Caius College, Cambridge, from which he continued his studies in medicine at St. Bartholomew's, and in 1913 qualified by taking the London double diploma, following this up with M.B. (Cantab.). He was for some time house surgeon at the West London Hospital, and at the outbreak of war got a commission in the R.A.M.C.

Captain Lescher.

Second-Lieutenant John Clarence Jinks, of the Shropshire Light Infantry, has been awarded the Military Cross. The "Gazette" says: "Though commanding machine-guns, he took command in the enemy's second line when most of the officers had become casualties, and organised the defences under difficult circumstances." The lieutenant is a son of Mr. John Jinks, dispensing chemist, Iron Bridge, and is himself a pharmaceutical chemist and Pereira medallist. He was awarded a Bell scholarship in 1911, and distinguished himself in all subjects at the School of Pharmacy, passing the Minor examination July 1912 and the Major in the April following. He had been awarded a herbarium certificate in 1912, and in 1913 won the Pereira medal. He now has the distinction of being the first pharmaceutical chemist to get the Military Cross.

Miscellaneous.

War Contracts.—The Australian Commonwealth Government has accepted tenders for drugs for the Army from Elliott Bros., Ltd., Parke, Davis & Co., and Fassett & Johnson.

Novocaine Trade-mark.—Levinstein, Ltd., Blackley, Manchester, are applying for the avoidance or suspension of trade-mark 276,447, belonging to the Farbwerke vormals Meister, Lucius & Brüning. The hearing takes place on November 3.

"Cyanides."—Mr. G. G. Rule, "Glendene," Holyhead Road, Oakengates, Salop, has been asked by Mr. Wootton, Principal of the London College of Pharmacy, to assist him in completing a Roll of Honour for the College. Mr. Rule would be glad to receive particulars of "Cyanides" serving with the Colours, unit, rank, experience, and the like being specified. He and the College will appreciate co-operation in this matter.

Earlier Closing of Shops.

Regulation and Order made under the Defence of the Realm Consolidation Act, 1914.

His Majesty in Council on October 24 ordered that after Regulation 10A the following regulation shall be inserted:

"10B. The Secretary of State may by Order restrict either generally or in particular areas the hours in the evening during which any class of trade or business may be carried on; and any person who is expressed in any such Order to be liable to a penalty in connection with any contravention of the Order shall be guilty of a summary offence against these regulations and punishable accordingly.

"In the application of these regulations to Scotland the Secretary for Scotland, and in the application of these regulations to Ireland the Lord Lieutenant, shall be substituted for the Secretary of State."

Regulation 10A, ordered on February 15, 1916, gives power to prohibit introduction of intoxicating liquor into dock premises. In accordance with Regulation 10B the Home Secretary made on October 24 a

New Closing Order,

the terms of which are as follows:

1. From October 30, 1916, to April 30, 1917 (both days inclusive):

(*a*) Every shop shall be closed for the serving of customers not later than 8 o'clock in the evening on Friday, 9 o'clock in the evening on Saturday, and 7 o'clock in the evening on every other day, and in the case of a contravention of this provision the occupier of the shop shall be liable to a penalty; and

(*b*) Any person who carries on in any place not being a shop any retail trade or business after 8 o'clock in the evening on Friday, 9 o'clock in the evening on Saturday, or 7 o'clock in the evening on any other day shall be liable to a penalty;

Provided that this Order shall not prevent

(1) the serving of a customer where it is proved that the customer was in the shop before the closing hour or that reasonable grounds existed for believing that the article supplied after the closing hour to a customer was required in a case of illness; or (2) the sale after the closing hour of—(*a*) meals to be consumed on the premises or newly cooked provisions to be consumed off the premises; (*b*) intoxicating liquors to be consumed on or off the premises;

(*c*) medicine or medical or surgical appliances, so long as the shop is kept open and lighted only for such time as is necessary for serving the customer;

(*d*) newspapers; (*e*) victuals, stores, or other necessaries required by any naval or military authority for his Majesty' Forces or required for any ship on her arrival at or immediately before her departure from a port, so long as the shop is kept open and lighted only for such time as is necessary for serving the customer; or (3) the transaction after the closing hour of any post-office business; or shaving or hairdressing in a barber's or hairdresser's shop up to 8 o'clock in the evening.

2. The expression "shop" and "retail trade or business" in this Order have the same meaning respectively as in the Shops Act, 1912.

3. This Order shall not affect any obligation to comply with the provisions of the Shops Acts, 1912 and 1913, or any Order made thereunder, or any other Act, Order, or regulation restricting hours of sale or the hours of transaction of business.

The Home Secretary states that it must be clearly understood that a shop which remains open for the sale of any of the articles or transaction of any of the business named is *not* allowed to sell anything else or carry on any other retail trade or business after the closing-hour.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

A Glycerin Statement.

The Ministry of Munitions has sent us the following statement in regard to the use of glycerin in medicines:

"As from 1st April, 1916, glycerin manufacturers were asked to obtain from buyers a guarantee that all medicinal glycerin delivered would be used only for making up British Pharmacopœia or B.P. Codex preparations, or where it was prescribed in individual cases, either alone or in combination with other drugs, by a duly qualified medical practitioner. These restrictions were not applied to stocks held by wholesalers or retailers prior to 1st April; but in view of the increased necessity for conserving the supply for the needs of the war, and the possibility that it may be necessary to reduce still further the quantity to be allowed for medicinal purposes, holders of such stocks are now asked to apply the restrictions to them. Such action will directly serve national interests in tending to secure a sufficient supply of glycerin for the general public in those cases where its value for medicinal purposes is of importance."

Drug Contracts.

The following have been settled since our last report:

Hertford and Ware Joint Hospital.—Mr. Lewis (Ware), medical sundries.

St. Pancras Guardians.—Six months' supplies except otherwise stated: Sangers, surgical dressings, proprietary articles; S. Maw, Son & Sons, surgical instruments, surgical sundries, and indiarubber goods (part); Pocock Bros., indiarubber water-beds; T. Hodgkinson, Prestons & King, drugs (three months); C. Greenacre, optics; and J. G. Ingram & Co., waterproof sheeting.

Commercial Intelligence Department.

The Board of Trade announce that with a view to improving the organisation for assisting British trade by collecting and distributing commercial information, the President of the Board has decided to amalgamate the Commercial Intelligence Branch and the Exhibitions Branch of the Board, and has appointed Sir William Clark, formerly Member for Commerce and Industry of the Council of the Viceroy of India, to be Comptroller-General of the combined Department, which will be known as the Department of Commercial Intelligence. Mr. Thomas Worthington, who has just retired from the post of Director of the Commercial Intelligence Branch under the age-limit, has assented, at the request of the President, to assist the Department in a consultative capacity as commercial adviser.

Birmingham and District.

Mr. Walter Lucas Chance, of Edgbaston, a director of Chance Bros., Ltd., has been added to the Magistrates for Smethwick.

The death is announced of Mr. George Tomlinson, member of the firm of shopfitters of Bond Street, Constitutional Hill, Birmingham.

Traders should note that after October 30 the G.P.O. in Birmingham will close at 9 P.M., and the latest collection of letters will be 8 P.M.

Lady Katharine Drummond, having accepted the presidency of the National Herb-growing Association for Warwickshire, is helping to organise the county in such matters.

Most Birmingham pharmacists have a happy recollection of the genial and very clever surgeon, Dr. Jordan Lloyd. Himself the son of an eminent medical practitioner, he was the father of a very talented daughter, who this week has secured the D.Sc. (London) for a thesis on physiology.

At the annual installation-meeting of the Dartmouth Lodge of Freemasons, No. 662, at the Masonic Hall, West Bromwich, on October 18, Worshipful Brother I. M. Withers (Bullus & Co., Ltd.) was installed as Assistant Director of Ceremonies. Mr. Withers was Vice-President of the West Bromwich Pharmaceutical Association in 1914-15, and President in 1915-16

Liverpool.

Mr. E. T. Neathercoat met with a very cordial reception at Liverpool on Wednesday night (see p. 49).

On the authority of the Clerk to the West Derby Poor-Law Guardians (Mr. Harris P. Cleaver) it was stated to the Board on Wednesday that condensed milk is found, for many purposes, a satisfactory alternative to ordinary milk in the Union's numerous and large institutions. Pharmacists are making window-displays of various prepared milks.

The Waterloo and district chemists had proposed to adopt 8 P.M. as the closing-hour for five days, and 9 P.M. on Saturdays, but the new order stayed them. Some of the elder pharmacists in this area recall apprentice-days, when the nominal hour of closing was 8 P.M., but closing then meant merely the putting-up of the shutters to the windows, the door being left on the latch until the hour of retiring to rest, usually ten o'clock. The new order stops that.

Liverpool has lost a leading citizen by the death of Alderman Sir William Benjamin Bowring, Bart., an ex-Lord Mayor, a shipowner, who was born at St. John's, Newfoundland, in 1833. He gave Robey Park, renamed Bowring Park, an estate of 100 acres, to the city. At the funeral on Tuesday the Lord Mayor and many other public representatives attended. The general list of mourners included the Lord Mayor-elect (Mr. Max Muspratt), Sir Edward Evans, Mr. Henry Peet, J.P., Mr. T. Fell Abraham, and Mr. Robert C. Herman.

The darkening order, which, with the addition of the accentuated early closing, makes the streets dangerous at night, is leading steadily to reduction and partial abolition of evening assemblies. Under these circumstances, the comparatively late hours during which pharmacies are kept open are accompanied by decreasing trade after the lights have been lowered. In a leading thoroughfare it is noted that the cue to the dropping of blinds on windows and doors and the switching-off of light visible outside is given by a corner pharmacy which commands a wide view. The proprietor happens to be a Justice of the Peace, and thus he is taken, by common consent, as an example to follow.

Sheffield.

Mr. O. Wright, drug-store proprietor, 283 London Road, a late member of the Pharmaceutical Committee, has been granted exemption from military service until November 19, which is to be final. Most of the younger herbalists are having to take up national service either with the Colours or in munition-works.

It looks as if chemists have not finished with their troubles over the recruiting question. We understand that the Military Representative is returning the whole list of exemptions, on the advice of the Appeal Tribunal, for review, with a view of releasing any young men not absolutely necessary for military service. There is very little likelihood of any exemption being granted for chemists starting new businesses.

An attempt is being made by the Pharmaceutical Committee to secure some uniformity in the hours of service for Insurance dispensing for 1917. In view of the new closing order and the stringent steps which are being taken to enforce the lighting order, a communication is being addressed to each panel chemist asking for his proposed hours before the official list is published.

The Royal Hospital staff have again come under the comments of the City Coroner. It was found necessary to give a child ether and chloroform, and she died during the operation. A certificate was given for "intestinal toxæmia." The Coroner pointed out that the child died from chloroform, which is a poison, and it was suggested that the doctor was trying to hide the cause of death from the Registrar and himself. The jury returned a verdict that the child died from vomiting following an anæsthetic of chloroform.

The Secretary to the Pharmaceutical Committee is issuing a circular, enclosing a ballot-paper from the Executive Committee in London, and recommending, on behalf of the Local Committee, the acceptance of the proposed terms for 1917. Some uncertainty prevailed in the minds of the Committee on the reading of the letter sent by the Commissioners on the method likely to be adopted for the pricing of drugs for 1917. After the leading article in the *C. & D.* it was decided to have the point made clear, which has been done.

Miscellaneous.

Bermondsey Infirmary.—Mr. J. Bourke, disperser, has been granted a six-weeks' extension of his absence from duty on account of a nervous breakdown, and Mr. George Bisley is acting in his place.

British Empire Producers' Organisation.—Our Parliamentary correspondent is informed that preliminary negotiations have been opened for the formation of a Chemical-manufacturers' Section of the British Empire Producers' Organisation.

A New Industry for Derby.—The British Cellulose and Chemical Manufacturing Co., Ltd., are to erect a large factory at Derby, where it is intended within a period of two or three years to expend 50,000*l.* on buildings and plant in order to fulfil Government contracts.

Sale of Diachylon Plaster.—As the result of negotiations between the National Commission on the Birth-rate and

the Association of British Plaster-makers (*C. & D.*, October 14, p. 35), a joint recommendation has been adopted to the effect that lump diachylon should be included in Part 1 of the Poisons Schedule.

Poisonings.—Another case of poisoning from trinitrophenol has been reported during the week. The Home Office is now taking special precautions to deal with the risk of poisoning by preventive regulations. A soldier at Dudley named Wood died from carbolic-acid poisoning; he took the poison while of unsound mind.

Venereal Diseases.—A meeting convened by the National Council for Combating Venereal Diseases was held at the Mansion House, London, E.C., on October 24, when Mr. Walter Long, President of the Local Government Board, stated that if public opinion was shown to be in favour of a really workable proposal for legislation against quack practice in venereal diseases, he would be ready to do his very best to carry such a measure through Parliament.

The Association of Manufacturing Chemists, Ltd., in the course of its second annual report, states that there are now 157 subscribers on the books, and most of the largest wholesale manufacturing chemists and allied trades have recently joined on the recommendation of members. The report deals with the work of the debt-recovery department, inquiry and insolvency departments. The Association has "a register of every chemist in the Kingdom and his status and position kept up to date."

Thermos Flasks.—At Thames Police Court on October 23, two men, Peter C. Forbes (45) and W. Cordell (48), were remanded on a charge of stealing and receiving five cases of Thermos vacuum flasks, value 139*l.* 3*s.*, the property of the Midland Railway Co. A police superintendent stated that he discovered part of the missing property at Gamage's. Forbes had a chemist's shop at 188 Boleyn Road, Stoke Newington, and told him that he had sold five cases of flasks to Gamage's; also that he bought them off a ginger-beer carman. He got 42*l.* 8*s.* from Gamage's for them. Cordell said he sold the flasks to Forbes for 30*l.*

P.V.C. Sanitary Exhibition.—This product of the energies of the Pharmacists' Volunteer Corps at Brockwell Park was visited last Saturday afternoon by Sir William Collins, K.C.V.O., Director of Volunteer Medical Services, accompanied by Major Bennett, Medical Adviser to the V.M. Board, and Dr. Tate, of the 1st Battalion of the Central London Group of Volunteer Corps. The commandant and several officers explained the exhibits, and the visitors were much interested. On Sunday, October 22, Dr. Burnet inspected the Corps and their work, complimenting the men highly.

Bribery League.—Mr. David Howard, F.I.C., F.C.S., presided at the annual meeting of the Bribery and Secret Commissions Prevention League, which was held in the Skinners' Hall, London, on October 20. In the course of the proceedings he regretted that Mr. Lloyd George had been unable to attend, and remarked that although he did not agree with him politically, he had the profoundest admiration for Mr. Lloyd George as a statesman, a patriot, and a man of business. Among the speakers were Sir Walter Phillimore, who as an ex-Judge, said that steady, safe, and certain convictions are needed, and he hoped that the League would not attempt to get severe penalties inserted in any fresh legislation.

Lighting Offences.—The following convictions under lighting-restriction orders have been notified since our last issue: At Blackburn on October 20, Mr. H. E. Beswick, chemist and druggist, Audley Range, Blackburn, fine 10*s.*—At Grantham on October 16, Mr. Arthur Chambers, chemist and druggist, 36 Watergate, Grantham, 20*s.* fine.—Mr. H. R. Duncan, chemist and druggist, 8 East Reach, Taunton, 10*s.* fine.—Mr. John J. Wilson, chemist and druggist, 67 Main Street, Egremont West, 20*s.* fine.—At Lancaster on October 21, John Hornbrook, assistant to Mr. George Birkett, chemist and druggist, 28 Regent Road, Morecambe, 40*s.* fine; and Mr. Thomas Waddington, Drug-stores, 30 Regent Road, Morecambe, 40*s.* fine.

Opium and Cocaine Charges.—At West Ham Police Court on October 23, a Cingalese sailor (18) was sentenced to six weeks' imprisonment for attempting to export 4 lb. of opium.—At Marlborough Street Police Court on the same day, John Roquet (49) and Frank R. Cheroka (36), American citizens, were sentenced to three months' hard labour for having opium in their possession, and Roquet also for, being an unauthorised person, having in his possession a bottle containing cocaine. After this they will be expelled from the country.—At the Thames Police Court on October 24, Ching Chong (44), a Chinaman, was fined 20*l.*, or six weeks' imprisonment, and another 40*s.* or thirteen days' imprisonment, for being in possession of opium

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Chemists and Druggists' Society.

The winter session of the Chemists' and Druggists' Society of Ireland was inaugurated on October 18 by a tea and concert in the Central Hall, Belfast. Mr. W. J. Rankin, the President, was in the chair, and apologised for the unavoidable absence of Mrs. Rankin. Among those present were: Messrs. S. Gibson, J.P., John Frackleton, S. McDowell, W. Martin, W. E. Wilson, William Haslett, S. Suffern, J. Macauley, J. Walsh, A. M. Gamble, W. J. Gibson, J. D. Carse, and S. Nevin (Hon. Secretary), F. T. Smith, J.P. (Antrim), J. Ekin, Jas. Moffett, J. Sandford, J. Long, A. Davis, E. J. Roberts, J. Gray, A. Storey, Ph.C., D. A. Taylor, T. Mitchell, Ph.C., S. Stewart, H. Marshall, J. Richardson, and Dr. S. E. Acheson. A good musical programme was gone through, and at the close a vote of thanks was given to Mr. and Mrs. Rankin, proposed by Mr. S. Gibson, seconded by Mr. W. Haslett.

Brevities.

A pharmacy is about to be opened at the main street, Rathkeale, co. Limerick, by Mr. P. J. Hickey, Ph.C.

At Killelan last week a thief entered the bungalow of Mr. D. S. Bennett, Ph.C., Cahirciveen, and stole some valuable property.

The Listowel Urban Council have selected Messrs. D. H. Leane, Ph.C., and J. F. McGuire, Ph.C., to represent the Council under the Irish Education Act (1892).

Mr. M. MacDonald, Ph.C., Donegall Street, Belfast, has been appointed by the National Health Insurance Commission to a seat on the Belfast County Borough Insurance Committee.

The leading chemists in Cork decided that from October 7 they would close their premises each night at ten o'clock, but our Cork correspondent informs us that the agreement was broken before it was a week in existence. However, the greater number have decided that they will abide by the undertaking. [The Order (p. 38) now applies.]

The Lord Lieutenant and Privy Council have approved of the appointment of Mr. James Guiler, Ph.C., to be temporary examiner for the materia medica and botany division of the Pharmaceutical Licence examination for the purposes of the Pharmacy Acts (Ireland), in the room of Mr. John Wesley Harvey, who is unable to conduct the examination.

The death took place last week at Alexandria of Captain Wm. Crymble, R.A.M.C., Special Reserve. Captain Wm. Crymble served his apprenticeship to the pharmacy business with Mr. W. Shields, Ph.C., Downpatrick, and then took up the study of medicine, graduating at the Royal University of Ireland. He went to France with the Expeditionary Force, was captured at Mons, and detained for a year in Germany before being released. He was sent to the Eastern port, where he contracted enteric fever, to which he succumbed.

Mr. J. R. Moloney, who acted for some time as temporary compounder to the Tipperary Guardians, wrote to that body objecting that 1*l.* a week, which they propose to pay him, is quite inadequate, and asked for increased remuneration. The Clerk said the Local Government Board had all the correspondence before them, and had sanctioned Mr. Moloney's remuneration at 1*l.* a week. The application was referred to the Local Government Board, the Chairman and several members stating that the remuneration was very small and they would be glad to increase it if permitted.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Co-operative Societies.

The reports of the Northern Co-operative Co., Ltd., Aberdeen, and St. Cuthbert's Co-operative Association, Ltd., Edinburgh, have been issued this week, and as the periods covered are approximately the same the figures relating to the drug-departments may be compared. The Aberdeen report is for the half-year which ended on August 31, 1916, and the Edinburgh one for the half-year that ended on September 5, 1916; Aberdeen has five drug-shops, and Edinburgh six. The total sales in Aberdeen amounted to 5,066*l.*, and the profit was 925*l.*, while in Edinburgh the figures were 5,219*l.* and 1,918*l.* This looks as if Edinburgh

makes twice as much profit as Aberdeen, but Edinburgh has comparatively little expenses put against the drug-department except wages and salaries. In Edinburgh, out of total expenses 1,536*l.*, wages and salaries cost 1,212*l.*; while in Aberdeen 731*l.* was for wages and salaries and 361*l.* for trade-charges, including rent, taxes, and the other things that every shopkeeper has to pay. Aberdeen's figures for the first six months—September-February—were 5,137*l.* sales and 1,023*l.* net profits, the year's figures thus being 10,391*l.* sales and 1,948*l.* net profit; the figures thus showing that St. Cuthbert's are not properly comparative, for the profits made there cannot be double what are made in Aberdeen. It is interesting to note that trade-charges are increasing in Aberdeen owing to the war.

Edinburgh and District.

Captain A. R. Gibb, of the Royal Field Artillery, a brother of Mr. J. P. Gibb, director of Raimes, Clark & Co., Ltd., has been killed in action. He was a solicitor and a keen golfer.

Mr. Glode Guyer, speaking at a meeting of the National Herb-growing Association, Lothians Branch, on October 24, said that certain herbs collected in Scotland had been declared to be superior to those on the London market.

The "Daily Sketch" published last week a portrait of Miss Mary Scobie, M.A., B.Sc., who has been appointed analytical chemist at Musselburgh Wire-mills—"the first lady for such a position," said the "Sketch," oblivious of the fact that many ladies act as analytical chemists in different branches of British industries.

A local pestler who owns a Scots terrier succumbed to convention and placed a piece of roll sulphur in the animal's drinking-water. The terrier is evidently as "canny" as his nationality would suggest. When he goes for a drink he lifts out the sulphur, places it beside the dish while he drinks, and replaces it when he has finished.

Glasgow.

The first fully equipped *x*-ray waggon to be provided in Scotland for ambulance-work in the war was presented last week to the Scottish Women's Hospital by the Committee of the Edith Cavell Memorial Fund in Glasgow. It is to be sent to Serbia. Miss Edith Storey, radiographer with the Scottish Women's Hospital in Salonica, who is at present in Scotland, inspected the car, and expressed warm appreciation of the gift.

Presiding at the annual general meeting of the Glasgow and West of Scotland Royal Technical College last week, Sir Geo. T. Beilby, F.R.S., urged the maintaining and supplying of a steady stream of students in view of industrial needs, particularly in regard to chemistry. Mr. Chrystal moved approval of the minutes of Committees on Chemistry and Metallurgy, and directed attention to the work done for Government in synthetic drugs, which, he said, was highly satisfactory.

The other night, says the "Evening Times," a man, who had imbibed rather freely, entered a Glasgow chemist's shop in mistake for a "pub" and demanded a half-pint. No legitimate patrons being in the shop at the time, the chemist (a bit of a wag) brewed an impromptu concoction, and handing it over exacted the usual bar-price. "Hanged soor beer that!" snorted the bibulous one. "'Twill sweeten your breath," replied the pill-vendor as his unusual visitor faded into the night.

French News.

(From the "C. & D." Paris Correspondent.)

Chemical Business.—M. R. P. Duchemin, Secretary of the Syndicat Général des Produits Chimiques Françaises, has drawn up a report on French trade in chemicals with a view to placing the industry in a position to meet competition with Germany after the war. It deals chiefly with heavy chemicals, and suggests a special tariff for products from enemy countries so as to foster the new chemical industries which are being established in various places in France.

State Drugs.—The French Government early in the war established State pharmacies in Paris, Marseilles, and Nantes for the manufacture of drug and pharmaceutical products for the Army. Between August 2, 1914, and September 3, 1915, says the Paris correspondent of the "Daily Chronicle," it furnished the army with 1,373,000 tubes of serum, to mention only one among a hundred medical necessities which it supplies to the French and Allied armies. It is declared that the State, by manufacturing its own drugs instead of buying them at ruling prices, has saved the nation 480,000*l.*

Colonial and Foreign News.

Eighteen Enemy Firms in Rangoon are being officially wound up, all proceedings being transferred to the Government of Burma. The firms are mostly importers, exporters, and rice-millers.

Singapore Medical School.—At a distribution of prizes by the Colonial Secretary at King Edward VII. Medical School, Singapore, copies of the "Art of Dispensing" were awarded as special prizes in pharmacy to K. Mohd Ariff and M. A. Gabriel.

Canadian Honey.—The beekeepers in Ontario have gathered a bountiful yield of honey this season, amounting to 2,127,903 lb. The wholesale prices recommended are 10c. to 11½c. per lb. for No. 1 light extracted, and 2½c. above those prices for retail.

Medical Hall, Singapore.—Mr. Geo. W. Crawford, chemist and druggist, informs us that it is the business of "The Pharmacy," of which he is manager, that has purchased the Medical Hall, Singapore, and they have given up the old name "The Pharmacy." Mr. Crawford continues in his position as manager.

Sphagnum Moss.—The Dutch daily papers have been commenting upon an article that appeared in the "Manchester Guardian" about the use of sphagnum moss as a dressing. It is pointed out that the moss has been used for this purpose in Holland since 1883, and Professor Van der Wielen is among those who have commented upon the subject.

The Pharmacists of Italy have presented a petition to the Superior Council of Health, which recently met in the Palazzo Braschi, Rome, asking for the removal of several grievances under which Italian pharmacy is suffering. A revision of the import tariff on medicines and pharmaceutical products is asked for, also prohibition of the use of several names for designating the same chemical, aspirin being a notorious instance.

Unqualified Practitioners.—At Singapore on September 7, two Japanese and a Eurasian were charged with making use of the title or addition "doctor" or "surgeon," thereby implying qualification to practise medicine in the Colony, not being registered or exempted under the provisions of the Ordinance. The charges were withdrawn on the defendants giving undertakings to drop the use of the words "doctor" and "surgeon" on their signboards.

Smuggled Opium Destroyed.—The Chinese Revenue cruiser *Liuhsing*, on September 15, destroyed at sea about 3,340 lb. of smuggled opium, valued at about half a million dollars. The opium (Persian and Yunnan) was thrown overboard at sea at a depth of about 35 fathoms. The drug was chopped into small pieces before being pitched into the water. Some of the opium had been found in the possession of Yunnan officials, while a quantity of it was shipped from London in incubators and seized at Shanghai.

Opium Standard.—The following standard for opium for medicinal purposes has been issued under the Customs Act of Australia as an addition to Regulation 109:

> The standard for opium for medicinal purposes, and opium contained in any medicinal preparation, is dependent upon the morphine-content. Opium having a morphine-content of not more than 10½ per cent. is chargeable with duty at the rate per lb. imposed by the Customs tariff in force at the date of entry for home consumption. Where the morphine-content exceeds 10½ per cent., the rate applicable is found by multiplying the tariff rate by the percentage of morphine-content, and dividing by 10½.

Habit-forming Drugs.—At the meeting of the Cape Province Medical Council on September 6, Dr. C. F. K. Murray presiding, Dr. W. Darley-Hartley moved that:

> "The Council desires to draw the attention of the Government to legislation adopted in Great Britain, France, the United States, and elsewhere, regulating the sale of dangerous habit-forming drugs, such as cocaine and morphine, and to commend to its consideration the advisability of some such legislation in this country, either in connection with the contemplated Medical and Pharmacy Bill or otherwise."

Dr. J. A. Mitchell seconded, and after supporting remarks from Dr. M. Hewat and the Chairman the motion was carried, as was also a resolution asking the Government to remove the sale of dagga and its preparations from Schedule II., and place it in Schedule I. of the Poisons Act.

Professor Vincenz von Czerny, senior medical professor of the faculty of Heidelberg University, and noted as a surgeon and cancer expert, died on October 4, at the age of seventy-four. He was Hon. President of the International Cancer Investigation Association.

Legal Reports.

A Month's Notice.—At Stamford County Court on October 16, Judge W. Moore Cann awarded A. Andrews his claim, a month's salary, 4*l.* 2*s.* 6*d.*, with costs, for which he sued Silas Robinson, wholesale druggist, 10 St. Mary's Street, Stamford, by whom he was employed as bookkeeper at 27*s.* 6*d.* a week, subject to a month's notice. Defendant denied the condition, but his Honour held that plaintiff was entitled to a month's notice.

Palm-oil-nut Machinery.—In the City of London Court on Friday, October 20, Judge Atherley-Jones, K.C., delivered a considered judgment in the case in which Mr. Julius O. Drews, engineer, Maida Vale, claimed 23*l.* damages from Lawler, Ayers & Co., Ltd., for breach of an agreement to make a palm-oil-nut cracking machine, and damages for the detention of a flywheel belonging to the plaintiff. Defendants counterclaimed for 44*l.* The machine was wanted to send out to the West Coast of Africa for breaking up palm-nuts. Judgment was given for the plaintiff for 18*l.*, and 6*l.* was awarded on the counterclaim.

Sending Treasury Notes by Post.—In the City of London Court on October 19, the case of Boyd *v.* Wheeler came before Judge Atherley-Jones, K.C. The sole point of interest was in regard to payment of an account by defendant to plaintiffs. The latter had removed a branch and instructed customers to send all future remittances to Holborn, when plaintiffs would allow for cost of postages and postal orders. Defendant had sent, among other sums, 2*l.* by Treasury notes, which never arrived, and plaintiffs now claimed for, saying that Treasury notes ought to be registered if sent through the post. Defendant contended that after the invitation to send postal orders through the post he was justified in sending Treasury notes unregistered, particularly as others had been received by the plaintiffs without a murmur. His Honour said that unless there was an assent by the creditor to payment through the post, and the letter miscarried, it was not an effective payment. It was a pity the defendant did not adopt the more prudent course of sending postal orders, but he did not say he was wrong. Judgment was entered for the defendant, upholding the previous decision of the Registrar (Mr. J. Anstey Wild). Leave to appeal was granted.

Pharmacy Acts: A Wrong Address.—At the Bloomsbury County Court on October 24, Noble's Drug Stores, Ltd., Well Street, Whitechapel, were sued by the Pharmaceutical Society for 10*l.*, being penalties incurred through the sale of poisons by unqualified persons in defendants' premises. Mr. Quarrell represented the Pharmaceutical Society, and Mr. Gaspar the defendants. Mr. Quarrell stated that an inspector employed by the Society was served with lysol at the defendants' premises at 51 Watney Street, also with a packet of veratrine (a poisonous vegetable alkaloid) pomade, at 735 Commercial Road. The inspector, Mr. Waldock, supported this statement by evidence, and was cross-examined by Mr. Gaspar, who called Mr. Noble for the defence. Witness stated that since the war commenced his company had had difficulty in getting qualified men, and every chemist is in the same position. He thought the Pharmaceutical Society knew it. He had no shop at 735 Commercial Road, but, in reply to Mr. Quarrell, said he has one at 743. Mr. Quarrell asked if any other shops were in charge of unqualified men, but the Judge overruled the question. He would be subject to a penalty, so he was not bound to answer. Witness said he had paid one penalty and half of another one. It was pointed out that there had been a mistake in the number of the road, and the Judge said the summons would have to be amended. Mr. Gaspar objected, and the Judge said the case would have to be adjourned, and the defendant would have the costs of the day. Mr. Quarrell said the witness could inspect the premises and the summons could be amended. It was arranged that no analysis of the two articles would be required, and the hearing was adjourned.

The late Sir William Ramsay.—Professor Dr. H. Grossmann, Berlin, devoted an article to Sir William Ramsay in the "Chemiker Zeitung," August 30. It was an appreciative article in which a description of Ramsay's life was given, but the author naturally does not appreciate Sir William's outspoken truths which he delivered so soon as he discovered the dishonourable character of many German scientists.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

J. P. Gilmour, Ltd. (P.C.).—Capital, 700*l.* in 1*l.* shares. Objects: To carry on the business of J. P. Gilmour, chemist, 312 Cathcart Road, Glasgow. The subscribers and directors are: J. Halliwell and R. Wylie. R.O., as above.

British Sanatogen, Ltd. (P.C.).—Capital 100*l.* Objects: To carry on the business of pharmaceutical, manufacturing, and general chemists, druggists, manufacturers of and dealers in medicines, medical preparations and foods, dried milk and preparations thereof, etc. The subscribers are F. A. S. Gwatkin, solicitor, and S. Cronin, clerk. A declaration to the effect that the company is not formed for the purpose or with the intention of acquiring all or part of any undertaking the books and documents of which are liable to inspection under the Trading with the Enemy Act has been filed. Solicitors, McKenna & Co., 31-4 Basinghall Street, E.C.

The Bandoeng Quinine-factory have declared a dividend of 55 per cent. The question of paying interim dividends in December and April is under consideration.

Joint-stock Companies.—Notice is given in the "London Gazette," October 24, that the names of the undermentioned companies have been struck off the register and the companies dissolved: Biofix, Ltd.; Britannic Laboratories, Ltd.; Chemical Products Syndicate, Ltd.; Clenzall Fluids, Ltd.; Cyanide Vacuum Filter Co., Ltd.; Economin Syndicate, Ltd.; Electric Ozone Syndicate, Ltd.; Radium S.I.A.M.T., Ltd.; Scott's Drug Co., Ltd.; Stapleford Vinegar Brewery, Ltd.

Paine & Co., Ltd., St. Neots.—The gross profits on sales for the year ended May 31, 1916, were 50,793*l.*, but the increase has been counterbalanced by heavier expenses, and the diminution in the balance available for ordinary dividend and other purposes is entirely attributable to the inclusion, for the first time, of the new excess-profits duty, entailing a charge of over 2,500*l.* The directors propose to pay an ordinary dividend of 10 per cent., less tax, and to carry the balance forward.

A. & F. Pears, Ltd.—The annual meeting was held on October 24 at 71-75 New Oxford Street, London, W.C., Sir T. Dewar (the Chairman) presiding. The Chairman first referred with deep regret to the death of Sir Joseph Beecham, one of the directors. In moving the adoption of the report and accounts (*C. & D.*, October 21, p. 38), he said the company were building works in Boston, U.S.A., as well as in Sydney, N.S.W., to enable them to compete satisfactorily with the large business which is to be obtained in those parts. The large stocks in hand have enabled the company to supply their customers at the prices previously charged. A cake of common soap in Germany is 3*s.* 6*d.*; Pears in England is 4*d.* Reference was made to the new high-class toilet preparations which are now on sale in all parts of the world. The working arrangement with Lever Bros. has proved to be, from practical results, an enormous success. The report was unanimously adopted. Mr. William Hulme Lever (son of Sir William Lever) was elected a director as a successor to the late Sir Joseph Beecham.

Bankruptcy Reports.

Re Simon Chellew Moyle, 7 The Arcade, Bournemouth, Chemist and Druggist.—The public examination of this debtor took place on October 13 before the Deputy-Registrar. The petition had been filed at the instance of a creditor, and debtor, whose deficiency was returned at 293*l.* 17*s.* 8*d.*, attributed his failure to judgment having been obtained against him in an action for slander, the damages being fixed at 5*l.*, with taxed costs of 114*l.* 16*s.* Debtor commenced business in 1892 with 140*l.*; the business was an entirely new one, and appeared for some time to prosper, debtor estimating the turnover at about 1,000*l.* a year. During recent years, however, the business had fallen off owing to competition, and recent takings had only averaged 400*l.* a year. To forty-five unsecured creditors debtor owed 339*l.* 5*s.* 6*d.*, to one creditor for rent 13*l.* 2*s.* 6*d.*, and in rates and taxes 6*l.* 15*s.* 7*d.*, making liabilities of 339*l.* 5*s.* 6*d.* His assets were estimated as being: 2*l.* 14*s.* cash in hand, 30*l.* stock in hand, 20*l.* trade fixtures, twenty-two good book-debts 10*l.* 1*s.* 11*d.*, and five doubtful debts 2*l.* 10*s.* In reply

to the Official Receiver, debtor admitted to having lost 250*l.* by speculation on the Stock Exchange. The examination was closed.

Re A. Sarjeant & Co., Ltd., 70 Queen Victoria Street, E.C., and elsewhere, Chemists.—A meeting of the creditors was held at the offices of the Board of Trade, Carey Street, W.C., before the Liquidator (Mr. W. J. Warley) on October 24, when the liabilities were stated to be 1,448*l.* 13*s.* 7*d.*, against assets of 1,158*l.* 14*s.* 4*d.*, showing a total deficiency of 2,138*l.*. 2*s.* 3*d.* to the shareholders. After a statement about the businesses and their disposal, it was decided to appoint Mr. George White (Francis Nicholls & White, chartered accountants) as liquidator, to act in conjunction with a committee of inspection, consisting of Mr. George R. Barclay (Barclay & Sons, Ltd.) and Mr. Hewitt (Evans Sons Lescher & Webb, Ltd.). At the shareholders' meeting held subsequently a quorum was not present, and the meeting was formally adjourned for a week. The trade creditors include: Barclay & Sons, Ltd., 174*l.*; Edward Cook & Co., Ltd., 18*l.*; T. Christy & Co., 12*l.*; Evans Sons Lescher & Webb, Ltd., 71*l.*; Ford, Shapland & Co., 10*l.*; Kodak, Ltd., 17*l.*; H. & T. Kirby & Co., Ltd., 15*l.*; Meggeson & Co., Ltd., 35*l.*; Parke, Davis & Co., 11*l.*; and R. F. Reuter, 11*l.*

Births.

Cooper.—At 25 Pitt Street, Glasgow, on October 16, the wife of David Laing Cooper, chemist and druggist, of a son.

Moore.—At 391 High Road, Leytonstone, London, E., on October 19, the wife of C. A. Moore, chemist and druggist, of a daughter.

Marriage.

Scott—Hugard.—At the Mairie of the XVI. Arrondissement, Paris, on October 17, A. W. Birnie Scott, 38 Rue du Mont Thabor, to A. Leo, daughter of Madame Veuve Hugard.

Deaths.

Beecham.—At 9 Arkwright Road, Hampstead, London, N.W., on October 23, Sir Joseph Beecham, Bart., J.P., aged sixty-eight. Sir Joseph was found dead in bed on Monday morning. He was the elder of the two sons of Mr. Thomas Beecham, the originator of Beecham's pills, his brother being Dr. William Beecham, a medical practitioner who studied at Liverpool University College and St. Bartholomew's Hospital, and has practised in London since he took the L.R.C.P. & S.E. and L.F.P. & S.G. in 1885. Sir Joseph grew up in his father's business, having entered it as a boy, and at a time when the demand for Beecham's pills was satisfied by what he was able to make with mortar and pestle. His father removed from Wigan to St. Helens, and there the business grew steadily, so that in 1885 Mr. Thomas Beecham erected a magnificent factory in the town. By this time Beecham's pills were getting to be the leading "patent" in this country. Mr. Thomas Beecham was still at the head of affairs, and his son Joseph was his employé. But a few years later the father took a country house and left matters more in the hands of his son, who began to look keenly after the advertising. One day he took a whole page in the "Daily Telegraph"; this terrified his father, and surprised the whole advertising world, for that page was a new feature and a new venture. From that time the father trusted the son more than he had ever done before, and the pills went ahead, as every chemist in the British Empire knows, and a factory was established in the United States to keep pace with American and Canadian demand for the pills. Mr. Thomas Beecham retired from business in 1895, when his son took his place, continuing the direction of the development which had been going on since he entered it, especially when the new premises were built. This development has continued uninterruptedly, Sir Joseph being fortunate in his managers, Messrs. Rowed and Glover, and during the past year his son, Sir Thomas Beecham, became a partner and took an active part in the business, so far as his musical engagements permitted. We may note that a knighthood was conferred upon the father in January 1911 and a baronetcy three years later, while his son was knighted at the beginning of this year, his distinction as a musical conductor being thus recognised. Music is the family talent: for many years Sir Joseph was a parish church organist in St. Helens, and he was passionately fond of the organ and of musical exposition. He was also devoted to municipal life from 1889, when he became a member of St. Helens Town Council; he was first elected Mayor in 1899, and was re-elected in 1910 and 1911. On the first occasion of his Mayoralty he inaugurated it with a grand orchestral concert in December 1899, which, in the absence of Dr. Richter, was conducted by his son Thomas, who had just emerged from his teens. Sir Joseph's devotion to music had a counterpart in his love of art. He had formed a fine collection in his Lancashire home before he took a house at Hampstead. The principal room there was a gallery and music-room containing a fine three-manual organ, on which he was wont to play, his son joining him on occasions. In the room are Landseers, Morlands, Constables, and pictures of many other noted artists, and the whole house contains choice specimens of modern art. Constable's painting of Hampstead Heath that was the means of founding the Barbizon School is in Sir Joseph's collection: he had several good Turners, besides a portfolio containing a dozen water-colours by Turner, which he kept in their fine condition by this seclusion. It was a favourite practice of his to retire to one of the rooms late at night, when all was quiet, fill his pipe, and sit down to smoke, all the lights out except the lamp on one picture. This he would study. His devotion to art and his love for music were associated with a particularly quiet personality which only those could touch who were kindred spirits, and he met some of these at Hampstead, such as the late T. J. Barratt and Sir W. H. Lever, Bart., who were neighbours. His interest and participation in musical ventures were also notable, but he had slipped into these, and latterly when his son's talent developed and its exposition meant opera and orchestration, the father gave intelligent range to its exposition. Nevertheless Sir Joseph maintained his business interests, and as Chairman of the Proprietary Articles Section of the London Chamber of Commerce participated in all its work. He married, in 1873, Josephine, daughter of Mr. William Burnett, London, by whom he had two sons and six daughters. Sir Thomas Beecham, the elder son, succeeds to the baronetcy. He was born on April 29, 1879, and was educated at Rossall and Wadham College, Oxford. He is married to the daughter of Dr. C. S. Weller, New York, and has two sons.

Sir Joseph Beecham, Bart.

Mr. Walter Schroder held on inquest at Hampstead on Wednesday, when a verdict of death from natural causes was returned. The witnesses were Sir Thomas Beecham, Sir Joseph's butler, Dr. William Beecham, Dr. Cecil McFadden, and Dr. B. H. Spilsbury. The evidence showed that Sir Joseph had been exceptionally well lately, but had been feverish occasionally and sleepless. He was in his usual health and cheery when he went to bed on Sunday evening, but the butler found him dead on Monday morning. Dr. McFadden thought he had been dead five or six hours. Dr. Spilsbury stated that death was due to syncope consequent upon disease of the arteries; the heart was enlarged and the cavities dilated. The funeral took place at St. Helens Cemetery on Friday, October 27.

Donaldson.—At Dollar, on October 18, Jessie Gilchrist, widow of William Donaldson, chemist and druggist, Brora, Sutherlandshire.

Elliott.—At 133 High Street, Clapham, London, S.W., on October 22, Jane, wife of Mr. Smith Elliott, chemist and druggist (Boots, Ltd.).

Hope.—At Stoneraise, Broadoak Road, Worsley, on October 15, Mr. John Hope, chemist and druggist, 332 Deansgate, Manchester, aged fifty-three.

Maron.—The "Times" announces the death on September, 17 of David Maron, Ph.D. and research chemist, of Minsk-Geneva-London, aged fifty-two. Dr. Maron was a Russian who had been resident in England for many years. He was carrying out, at a factory near London, a new process by which the output of high-explosive shells could be accelerated, when he was fatally injured by an explosion.

Died on Service.

Flach.—Private George Flach, of the 3/23rd County of London Regiment, was killed in action on September 16. He was a younger brother of Mr. J. Flach, of 16 Water Lane, London, E.C., wholesale drug importer, in whose business he had been for some time before joining up under the Derby scheme. He had only been in the fighting-line for about a week, and was twenty-three years of age.

Hall.—Died of wounds received in action, Pioneer Sydney Reuben Hall, formerly an apprentice with Mr. A. E. Hobbs, Ph.C., Tunbridge Wells. Mr. Hall passed the Minor examination in July 1915, and in June of this year joined the Royal Engineers, being attached to the special branch in which men with chemical experience and knowledge were required.

Leefe.—Corporal H. Leefe, of the Yorkshire Regiment, who, as reported in the *C. & D.* last week, was wounded in the head, has since died. Before the war Corporal Leefe was an assistant with Taylor's Drug Co., Ltd., Westborough, Scarborough. He was twenty-four years of age, and leaves a widow and two children.

Levinstein.—Lieutenant G. E. Levinstein, son of the late Ivan Levinstein, founder of Levinstein, Ltd., was killed in action on October 12, at the age of twenty-nine. When the war broke out he was in America, in the service of the American branch of Levinstein, Ltd., but returned in September 1914 to join the Public Schools Battalion of the Royal Fusiliers, and subsequently received a commission in the Manchester Regiment. He was promoted lieutenant, and went out to France in the middle of July.

Morelli.—Sergeant Leonard Arthur Morelli, R.F.A., of the staff of The Chemist and Druggist, was killed while on duty on the night of October 15, aged twenty-two. Mr. Morelli was educated at Taplow Grammar School. He came to 42 Cannon Street on leaving school, and afterwards became chief assistant in the Supplement department. He joined the Royal Field Artillery soon after the outbreak of war in 1914, and was soon promoted bombardier and corporal. He became a sergeant after serving at the Front. At the time of his death he had been on active service for fourteen months. The Chaplain to the Forces attached to the division, in conveying an intimation of Sergeant Morelli's death, states that death was instantaneous. He adds: "I am indeed sorry for all who were dear to him, and hope that God will help them to bear their sorrow. No man could give his life for a more noble cause, and we cannot but feel proud of those who have made the greatest sacrifice. . . . We buried him in a recognised cemetery about two miles back from the gun position, and the battery fitter is making a good wooden cross to place over the spot." Mr. Morelli was a clever young man of much promise. His unselfish nature and kindly disposition made him a general favourite in the office, and his death is very sincerely regretted by all his colleagues.

Sergeant Morelli.

Roddick.—Killed in action, Private Thomas Roddick, of the Cameron Highlanders. Before enlisting he served his apprenticeship with Provost A. G. Laidlaw, chemist and druggist, Lockerbie.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Trinitrotoluene Poisoning.

In the House of Commons on Wednesday, Mr. W. C. Anderson asked the Home Secretary whether he is aware that of the 472 cases of industrial poisoning reported during the nine months ended September 1916, 120 occurred from toxic jaundice, and that of sixty-two deaths thirty-three were attributable to this cause, and how many of these cases were due to poisoning from trinitrotoluene?—Mr. Brace replied that the figures are correctly given. The number of these cases due to T.N.T. poisoning was ninety-five, and the number of deaths twenty-eight. Every possible step is being taken by the Department, in concert with the Ministry of Munitions, to investigate and deal with this disease.

British Dyes, Ltd.

Replying on October 19 to a question by Sir H. Dalziel regarding the lease of the Ellesmere Port Dye-works to Levinstein, Ltd., Manchester, the President of the Board of Trade (Mr. Runciman) said the works had been sold under the provisions of the Trading with the Enemy Acts. Full guarantees had been given by Messrs. Levinstein that the company shall always remain under British control. The Board of Trade took the advice of scientific experts on the evidence submitted by Messrs. Levinstein and British Dyes, Ltd., as to their respective ability to utilise the works in question for the manufacture of synthetic indigo. As it appeared from the report of the referees that on the evidence submitted Messrs. Levinstein were better qualified to carry on this particular manufacture by the process for which the Port Ellesmere plant was designed, the Board considered that no useful purpose would have been served by inviting competitive tenders, provided that Messrs. Levinstein were prepared to pay a price considered reasonable by the Court. He added, in reply to Sir Henry, that British Dyes, Ltd., did not have an opportunity of tendering; and he informed Mr. Booth that the selling-price was considered reasonable by the Court, and was not fixed by the Government.

Cocaine and Unregistered Dentists.

As announced in the *C. & D.* last week, the Home Secretary received at the House of Commons on Tuesday evening, October 25, a deputation representative of unregistered dentists, backed up by a large number of Members of Parliament, in regard to the restrictions upon the purchase and use of cocaine by dentists who are not registered. The views of the deputation are concisely expressed in the following resolution, which, as the result of the recent conference with Members of Parliament at the House of Commons, has been placed on the Order Paper by Sir Stuart Coats and other members:

"That in the opinion of this House the special permit granted by the Home Secretary to unregistered practitioners in dentistry to purchase and use solutions containing not more than 1 per cent. of cocaine for purposes of local anæsthetics up to October 31 next be extended for a further period of six months."

The deputation was introduced by Mr. P. W. Raffan, who has taken a prominent part in the movement, and there was a very large attendance. Among the speakers were the President, Secretary, and Treasurer of the Incorporated Dental Society. After a full discussion Mr. Herbert Samuel announced that he would extend the period for a further indefinite time, and that in the meanwhile he would appoint a small Committee to take evidence in regard to the *pros* and *cons* of the question. The suggestion was made that the period should be extended until Christmas, but Mr. Herbert Samuel expressed the view that this would be too long a time.

In the House of Commons the Home Secretary informed Mr. Dundas White, M.P., on Tuesday that the number of registered dental practitioners in the United Kingdom is 5,560. The number of unregistered persons practising dentistry must be very considerably larger, but he is unable to say even approximately how many there are. He is informed that the membership of the Incorporated Dental Society is about 2,000.

Mr. Samuel also informed Mr. Raffan that there have been twenty-five prosecutions in the Metropolitan police district for violation of the Order in Council prohibiting the sale of cocaine for improper purposes. In none was the source of supply traced to a dental practitioner. He had no information as to the number of prosecutions outside the Metropolitan area.

Mr. Samuel stated on Wednesday, in reply to Mr. Raffan, that he hoped to make an announcement in a few days, as the result of the report of the Expert Committee, and in the meantime the permission had been extended for a short time.

Sir H. Craik: Is the right hon. gentleman not aware of the danger caused by the extension of these facilities?—Mr. Samuel replied that he views the situation with concern, and he fully discussed it with the representatives of the unregistered dentists.

Mr. MacCallum Scott then asked the Home Secretary if he regarded cocaine as dangerous when used by an unregistered dentist, and not so when a registered dentist uses it.—Mr. Samuel replied "Not at all," and reminded the House that any person can call himself an unregistered dentist. He agreed with Commander Wedgwood that the bulk of the working classes goes to unregistered dentists, and assured Mr. Scott that registered dentists being well known, there is no danger in cocaine being supplied to them.

Mr. Raffan is next Tuesday asking what the terms of reference to the Committee are.

Trade Notes.

The Cheltine Works, Cheltenham, are the makers of diabetic foods, and they invite inquiries from chemists.

P.A.T.A. Protected List.—Some more of Cleaver's preparations and Eucryl shampoo-powder have been added this month.

The "Invincible" Pocket-lamp Battery is offered by Millard Brothers, Ltd., 123 Houndsditch, London, E.C., in any quantity up to a thousand.

A Horsehair Hand-brush, which can be sold at 1s., is figured on Maw's page this week. It is the "Pliant," and is the very thing for making the hands clean.

Attractive Windows are ensured with Dudley & Co.'s window-dressing papers, which are illustrated in their advertisement, and specimens can be got from 451, 550, and 558 Holloway Road, London, N.

Harlene Development is revealed by Edwards' Harlene, Ltd., Lamb's Conduit Street, London W.C. This week they mention six distinct articles, including Harlene, that they are effectively advertising to the public.

Mr. Leonard Morris, 7 Brazennose Street, Manchester, has been appointed sole agent for Great Britain and the Colonies for the Davol Rubber Co., manufacturers of all kinds of surgical rubber goods, Providence, U.S.A.

Baiss Bros. & Co., Ltd., 174-176 Grange Road, and 41-43 Grange Walk, Bermondsey, London, S.E., have acquired additional premises in Market Street, Bermondsey, in order to meet the requirements of the continuing development of their business.

R. J. Reuter, 69 Carter Lane, London, E.C., makes a feature of spray-producers this week. "Aristons" Nos. 1 and 2 are specially designed for oils and heavy liquids, which they "pulverise" effectively. Other makes are figured and described by Mr. Reuter.

"Red Band" Bismuthated Magnesia is the product of the Red Band Chemical Co., 186 Dalry Road, Edinburgh, and the company offer every chemist who orders from his local wholesaler six dozen threepenny boxes of it, costing 12s., a three-dozen box free. The company make an effective appeal to retailers and wholesalers in their advertisement in this issue.

Tabloid Brown Toner.—Under this name Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have issued a product for the purpose of toning sepia prints on bromide or gaslight papers to the colder rich brown which is preferred for certain subjects. It is for use with sepia-toned prints only, these being simply immersed in a solution of one tabloid brown toner in an ounce of 10-per-cent. solution of sodium hyposulphite.

Berkefeld Filters are now British, the business of the Berkefeld Filter Co., Ltd., which was of alien origin, having been purchased by Slack & Brownlow, a Manchester firm of almost ninety years' standing and of purely British origin. We have received a copy of the Board of Trade letter intimating this fact, and transactions may be entered into with the Berkefeld Filter Co. (British) without infringing the Trading with the Enemy Act.

Brewing Botanic Beer.—Newball & Mason, Nottingham, publish a useful little pamphlet entitled "Hints on Brewing Botanic Beer," which forms a twenty-four-page pamphlet, including cover. The method of brewing beer is first described, then the selection of sugar and yeast for brewing is dealt with, this including interesting observations on the amount of proof spirit produced from specified quantities of sugar. The figures given are for Demerara sugar and Tate's sugars. The results of a series of experiments show that even with so much sugar as 10 oz. to the gallon, if reasonable care be taken, the quantity of proof spirit formed on brewing will not be excisable. Following upon this yeast, preservatives, and the estimation of proof spirit in botanic beers are dealt with, particulars also being given in regard to Excise regulations, the use of saccharin, and finings. The booklet is serviceable to botanic and other brewers, and chemists and druggists will find it an advantage to bring it under the notice of their customers.

Acetyl-cellulose Teats have replaced rubber teats in Germany, Shaller, of Berlin, having made them satisfactorily.

Milk is Scarce in Germany, and the medical authorities have warned physicians to prescribe it only for the ailing and those who have undergone serious operations. Sick children are to be allowed to get it.

Observations and Reflections.

By Xrayser II.

The Cleft Stick

has a force beyond argument, and I am prepared to hear that the trade submits to the logic of the situation. I hope we shall remember how we have been led into this necessity of choosing what reason revolts against and justice abhors; and that we shall regard our new agreement as a truce only, not even as an approach to a final settlement. We have been told, in a fine burst of frankness, that it leaves some of our old grievances unredressed. As a matter of fact, it leaves them all unredressed. It is a temporary measure of relief during the continuance of war conditions—that is all; and if we accept it we do so only that we may have time to organise for a new campaign under bolder leaders when the year is out. Our present leaders have strained our loyalty almost to the breaking point; I have reason to believe that, if it were not that our labels make it inconvenient, many members would mark their disgust by seceding from the Society. The internal situation is indeed one which even Mr. Woolcock can hardly regard with satisfaction, and if his parliamentary prospects depended on the present feeling of panel chemists they would be anything but rosy.

Your Analysis of Insurance Dispensing Terms,

as defined in the Departmental Committee's Report, if carried a little further, would afford still more convincing proof that we have been deluded into accepting them. We were promised "remuneration" for three specific groups of expenses or services. But "remuneration," though, like "Mesopotamia," a "blessed word," has more than one meaning, and it is evident that the same meaning does not apply to all these three groups. A person who has out-of-pocket expenses returned to him is in a sense remunerated, but in the ordinary acceptation of the term remuneration includes something beyond the repayment of outlay. My dictionary gives "reward, recompense, satisfaction, requital" as synonyms of "remuneration," and by straining a point any one of these might perhaps be made to apply to our dispensing-fee. It would, however, be putting an undue strain on most of them to apply them to the establishment-charge, while as regards the price of drugs it would be farcical to employ any of them. For this group of expenses we are not, under the existing Tariff, remunerated in the narrowest sense, but are positively out of pocket unless we can buy under the most favourable conditions, which, for some of us, is geographically impossible. Some items in the September Tariff are 10 per cent. under current quotations in the list of a leading drug-house.

The Formamint and Sanatogen

decisions are really very important. They are, I believe, the first of the kind—that is, of spontaneous action on the part of the authorities—and I hope will not be the last. The deprivation of enemy rights is not the ground of the decision, but that will be the effect, for with thousands of chemists selling their own "Formamint" it can be well understood that the original article, should it ever reappear, will stand a poor chance. There is, however, some danger that the public may suffer. Formamint was never of much value—at least, that was my experience of it—and with a score of similar preparations on the market, some of them of even less value, there may be a danger lest the deluded purchaser may go on sucking worthless sweetmeats with no benefit to his throat and positive injury to his digestion. I have been told that Formamint had no germicidal value to speak of. I believe that a patent process was claimed whereby formalin and sugar of milk were chemically combined in Formamint, but as to that I have my doubts. The popularity of the tablet was induced by skilful advertising and that sublime faith in things that come from Germany that was by no means confined to medical men. Will that popularity fall off, now that Formamints are made by all and sundry?

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Also
"Sanitas Fluid" No. 2 (Crude).
Non-poisonous, disinfectant and deodorant.
"Sanitas-Bactox."
Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas-Okol."
Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas Sypol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formic Sulphugators."
"Sanitas Formitas Outfits."
"Sanitas Formigators."
"Sanitas Drain Testers."
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Peroxide of Hydrogen (Kingzett's Preserved.)
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Editorial Articles.

Earlier Closing of Shops.

We print on p. 38 the new Closing Order for shops, which comes into force in Great Britain and Ireland on Monday, October 30. A similar Order to that of the Home Secretary (applicable to England and Wales) has, we expect, been issued by the Secretary for Scotland and the Lord Lieutenant of Ireland. It will be noticed that the conditions of the Shops Acts, 1912 and 1913, continue, and that the new Order simply directs shops to be closed at 8 P.M. on Fridays, at 9 P.M. on Saturdays, and at 7 P.M. on other days. This will apply to chemists' shops like others, but after the closing-hour the Order will not prevent the sale to a customer of

> medicine or medical or surgical appliances, *so long as the shop is kept open and lighted only for such a time as is necessary for serving the customer.*

This means, substantially, that a chemist's shop, like other shops, will be closed at 7, 8, or 9 P.M., as the Order requires, and customers who are in the shop at the closing-hour may be served with any goods. If after the closing-hour customers want to get medicine or medical or surgical appliances, they may be admitted to the shop and be supplied with these, the shop being open and lighted while they are there. Difficulties are sure to arise, especially as chemists' and druggists' business-hours greatly depend upon medical doctors' consulting or visiting hours. So it is well to note that *chemists' shops are not exempted from closing*, but the Order will enable chemists to dispense an Insurance prescription, for example. A repeated series of such transactions will mean opening and shutting the shop unless the customers are continuous and constant, but nothing else, except the specified exemptions, can be sold to such customers. The chemists have the Shops Act, 1912, to help them, and we append a list of articles which chemists have been convicted for selling during closing-hours:

Beecham's pills	Menthol cone
Carbolic tooth-powder	Nail-brush
Chlorodyne lozenges	Seidlitz powder
Cod-liver-oil emulsion	Shaving-brush
Cold-cream	Sponge
Jockey Club perfume	Sulphur ointment
Malt extract and c.l. oil	Toilet-soap

The sale of any of these, or things like them, after the new closing-hours may get the retailers into trouble, and one of the best bits of evidence is an open shop. There is no reason why chemists should not work during closing-hours, but they must beware of their lights.

New Insurance Dispensing Terms.

> Mr. Roberts is disposed to agree that as regards the year 1917 panel chemists might not unreasonably ask for an additional allowance of .3*d.* per prescription dispensed during that year **in consideration of their undertaking a continuance of the supply of drugs and appliances at increased expense to the individual contractor.**

This is an excerpt from the letter that Mr. Rind wrote on Mr. Roberts' behalf to the Secretary of the Pharmaceutical Society. We considered that the phrase which we put in black type when we printed the letter in our issue of October 14 meant that the individual contractor

would take the risk of prices going up, that being the reasonable interpretation of the words "increased expense to the individual contractor." We said then that this was a most extraordinary condition to impose upon the contractors, but we did not emphasise the fact that the Pharmaceutical Society, through the Executive Committee, recommended the offer to be accepted without calling attention to the "increased expense." From the Commissioners' telegram that we printed last week it will have been noticed that this relates solely to increased working-expenses. The Pharmaceutical Society also moved in the matter, and has received a letter from Mr. Rind in which he explains that increased working-expenses means wages and other establishment-charges. We are satisfied with this explanation, but see no justification for the abuse that the Pharmaceutical Society and some of its provincial supporters want to pass upon us. Without the official explanation the individual contractor was (according to the letter) to continue to supply drugs and appliances at increased expense to himself. It is only fair that the Commissioners should have had the opportunity of placing this in correct language, so "increased expense" is narrowed down to "increased working-expenses." For this the trade has to thank The Chemist and Druggist, not the Pharmaceutical Society.

* * * * * * *

The importance of this explanation was emphasised on Monday, when the National Insurance Commission issued a reprint of its letter to the Society unaltered and the following conditions of agreement relating to the supply of drugs and appliances on and after January 1, 1917:

Sir,—I am directed by the above-named Insurance Committee to inform you that the Insurance Commissioners have issued new Regulations (National Health Insurance (Medical Benefit) Regulations, 1916, No. 2), amending the existing Regulations for the administration of Medical Benefit.

The material portion of the new Regulations affecting persons and firms supplying drugs and appliances is set out in the Appendix below, and notice is hereby given that the new provision there shown will, on and after 1st January, 1917, be incorporated in and form part of your agreement with the Insurance Committee.

I am also to direct your attention to the letter (printed overleaf) addressed on the direction of the Chairman of the National Health Insurance Joint Committee to the Pharmaceutical Society of Great Britain, intimating that, subject to the fulfilment of the conditions stated in the letter, an additional war allowance of .3*d.* per prescription will be made during the year 1917 and also retrospectively during the year 1916.

If you desire your name to be removed at the end of the current year from the list of persons, firms, and bodies corporate under contract with the Committee to supply drugs, etc., notice in writing to that effect must be given to the Committee not later than 3rd December. Failing such notice you will be deemed, in accordance with Article 19 (5) of the Medical Benefit Regulations, 1913, to have undertaken the supply of drugs, etc., for 1917, on the terms of your agreement as modified in the manner of which notice has been given.

I am, Sir, your obedient Servant,
Clerk to the Committee.

APPENDIX.

On and after the first day of January, 1917, the following proviso will be added to Clause 9 of the conditions of agreement for the supply of drugs or appliances set forth in the Third Schedule to the Medical Benefit Regulations, 1913:

"*Provided nevertheless that the chemist shall sell to any one of the persons mentioned in Section 13 of the Sale of Food and Drugs Act,* 1875, *or to any person authorized by such person, at the price usually charged to private customers, any drug or medicine prescribed or specified on the appropriate prescription form provided by the Committee for the use of insured persons and signed by a practitioner on the panel.*"

The document is Form 164 C./I.C., and may be regarded as the penultimate step to an agreement which will continue the service by English and Welsh chemists at 20 per cent. less than chemists in Scotland are getting for the same materials and work. The English Commissioners appear to have now got a firm grip of the Pharmaceutical Society's headquarters, and they are working together so well that they almost look as one!

What is Formamint?

We referred last week to the removal from the trade-mark register, by order of the Board of Trade, of the word "Formamint." This word was registered in 1904 by Luthi & Buhtz, Berlin, and appears on the register in fancy type, with a disclaimer to the exclusive use of the word "form." In 1906 the mark was assigned to Bauer & Co., Berlin; in 1909 to Johann Abraham Wulfing, Berlin; and in 1910 to Johann A. Wulfing, Berlin, and A. Wulfing & Co., 12 Chenies Street, London. The last-named firm is being wound up by the Board of Trade as an enemy firm. We stated last week that there are no patent-rights involved in the manufacture of formamint. A correspondent points out, however, that the bottles of formamint tablets are labelled "By Royal Letters Patent." German works of reference mention "Formamint" as a "loose combination of lactose with formaldehyde," and state further that formamint tablets contain 0.01 gram of formaldehyde. We find there is in existence a patent, 2682/06, taken out by Dr. Paul Rosenberg, Berlin, entitled "Improvements in and relating to Therapeutical Preparations containing Formic Aldehyde." This, we find, was transferred in 1911 to Johann Abraham von Wulfing, Berlin, and 12 Chenies Street, London, and the fees have been paid up to February 1917. The claim in this patent is for a "chemical combination of five molecules of formic aldehyde with one molecule of milk sugar," and it would seem to refer to the formamint mentioned in German books of reference. It is stated in the patent-specification that "this new compound is a solid substance which does not smell of formic aldehyde, etc." We note that formamint tablets made by A. Wulfing & Co. have a pronounced smell of formaldehyde.

Chemical Society.

The opening informal meeting of the Society's 1916-17 session was held at Burlington House, Piccadilly, W., on Thursday evening, October 19, at 8 p.m. There was a good attendance of members and their friends, nearly a hundred being present, and the libraries and lecture-hall were thrown open for their use. In the course of the evening tea and coffee were served, and many indulged in a quiet smoke, conversation being general. Among those present were the President (Dr. Alex. Scott, F.R.S.), Lieut.-Colonel Arthur Smithells (who was in Staff uniform), Mr. Francis H. Carr, Dr. M. O. Forster, F.R.S., Mr. Charles A. Hill, Dr. H. A. D. Jowett, Mr. George E. Pearson, Mr. H. H. Robins, Dr. George Senter, Dr. Samuel Smiles, and Mr. P. T. White. In the lecture-theatre several exhibits were laid out for inspection, that of the Boots Pure Drug Co., Ltd., being of special interest to pharmacists, as it consisted of specimens of chemical products made in the company's Nottingham factories under the direction of Mr. F. H. Carr. Among the substances may be mentioned chloralamide, chloramine T., acetanilide, aspirin (two specimens), paraldehyde, salol, adalin (bromdiethylacetylurea), phenacetin, hexamine, antipyrine, phthalic anhydride, and digitalin—this in pale-brown powder. Specimens of laboratory ware in glass and porcelain commanded a good deal of attention. The glassware exhibit was made by Duroglass Ltd. [agents, Baird & Tatlock (London), Ltd.], and included many really good specimens of this class of laboratory equipment. Doulton, Ltd., Lambeth, displayed porcelain apparatus of various kinds such as filter funnels and plates, Gooch crucibles, mercury-troughs, etc. A good deal of interest was directed towards a series of strips of an aluminium alloy demonstrating the effect of traces of water in inhibiting the action of organic acids in particular upon the metal. It was shown, *e.g.*, that whereas 99.9-per-cent. acetic acid had a "solution rate" of 4 mgms., the removal of the last traces of water to form the anhydrous acid raises the "solution rate" to over 200 mgms. Other strips of similar alloys illustrated the local action of acids under certain conditions of temperature and concentration, these factors determining whether "pitting" takes place or not. This exhibit formed part of an extensive research into the subject carried out by Messrs. Seligman and Williams. The meeting was one of the type which the Council has designed to promote acquaintance among the Fellows, and admirable this gathering proved to be in this respect.

Professor A. Tschirch, Ph.D., Berne, delivered a lecture on war botany to the Deutsche Pharmazeutische Gesellschaft in Berlin on October 5.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. Robert Gledhill, chemist and druggist, Westgate, Dewsbury, has been re-elected a Vice-President of the local Chamber of Trade.

Miss Robertson, assistant dispenser to the Paddington Guardians, has renewed her engagement at 120*l.* per annum, but would not bind herself for a year.

Mr. Joseph Gant, J.P., chemist and druggist, Stanwick, Northants, who died on March 1 last, left estate valued at 2,217*l.* gross, with net personalty 1,255*l.* 17*s.* 7*d.*

Major R. A. Treweeks, Pembroke, and Mr. L. J. Meyler, Milford Haven, have been appointed Justices of the Peace for the county of Pembroke. Both are dispensing chemists.

Mr. W. J. Barnes, J.P., chemist and druggist, Dover, Mr. E. H. Barritt, Ph.C., Colchester, and Mr. A. S. Campkin, chemist and druggist, and Mr. Richard Sturton, chemist and druggist, Cambridge, have been appointed members of the local Judicial Authority under the Lunacy and Mental Deficiency Acts.

Mr. George W. Worfolk, chemist and druggist, Great Bardfield, Essex, is retiring from business owing to poor health. Mr. Worfolk was for many years in business in Ilkley, and was justly esteemed in Yorkshire as a man of good judgment, whose advice in regard to trade movements was sought for and followed.

Lieutenant Arthur Leslie Platts, Suffolk Regiment, of The Clock House, Wimbledon Common, S.W., who was killed in action on July 21 last, left estate valued at 16,933*l.* gross, with net personalty 16,243*l.* Probate has been granted to his brother, Mr. Reginald Hardy Platts, analytical chemist, Wandsworth, and Mr. Wm. G. Whiffen, manufacturing chemist.

Mr. Geo. W. Gibson, pharmacist, St. Pancras South Infirmary, is suffering from a bereavement, his father, Captain Andrew Gibson, master mariner, having died at Douglas, Isle of Man, on October 16. Captain Gibson was an Ayrshire man, and was for over thirty years with the I.O.M. Steam Packet Co., rising to the position of Commodore of the Fleet, and as commander of the R.M.S. *Empress Queen* was familiar to many Lancashire pharmacists.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

110/48. "Phenoco."
109/4. Gregory's balm of liquorice.
108/41. Davies' triple-spring arch-support.
102/44. "Dermatogen."
99/32. "Daisy" gas-lighter.
96/36. Eratoi.
115/11. Jacob's eucalyptus oil.
115/15. Beatall's cockroach-paste.
115/17. Anti-frost-bite grease.
115/17. Lex Sapon (liquid soap for munition-workers).

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

"Aleresta" tablets, 103/37
"Ambrine," 105/68
Doan's backache-pills, 82/28
"Draseta" depilatory, 88/63
Eucalyptus oil, 98/20
"Euca-Pyne," 99/18
Extract of honey and flowers, 85/71
Gordon's "Creme de Mercure," 77/21
"Hennaglinta" shampoo-powders, 77/33
"Hormotone" tablets, 95/58
Menthol, 98/20
Microscopical stains, 85/49
"Spirastic" support, 67/51
"Sterilla" brand antiseptic soap, 103/38
Straw boot-socks, 100/5
Vogeler's compound, 93/34

Mr. John Sugden, director of the Yorkshire Dyeware Chemical Co., Huddersfield, who died on July 23, aged seventy-nine, left estate valued at 12,255*l.* gross, with net personalty 11,679*l.*

At a social gathering in Cranston's Royal Exchange Restaurant, Glasgow, on October 24, Mr. J. P. Gilmour was presented with a silver tea-and-coffee service, and gifts for his wife and daughter, on the occasion of his appointment as editor of the "Pharmaceutical Journal."

Gazette.

Bankruptcy Acts.

Receiving Orders.

Berggren, Erik L., & Co., 374 Old Street, London, turpentine agents.

Gribbin, W. H., 47 Norwood Road, Southport, and Unsworth, H. A., 13 Pole Lane, Failsworth, near Manchester, under the style of Gribbin, Unsworth & Co., at 16 John Dalton Street, Manchester, engineers and chemical-merchants.

Receiving Order and Adjudication.

Thornber, Alice M., 25 Goldington Road, Bedford, patent-medicine vendor.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

C. R. Toyne, Ltd., have removed their Upper Richmond Road pharmacy at Putney to more convenient premises a few doors away.

The Chemical-works Schmuziger & Co., Aarau, Switzerland, inform us that the business has been taken over by the Franco-Suisse Co., Ltd., Aarau.

Mr. W. R. Haycroft Sprackett, chemist and druggist, through ill-health, has disposed of his business carried on by him at 5 Broad Quay, Bristol, to Mr. Ernest L. Paterson, chemist and druggist.

Mr. Asa Holroyd, chemist and druggist, has removed from 433 Little Horton Lane, Bradford, to 658 Manchester Road, West Bowling, Bradford, recently occupied by J. Savage & Co., Ltd., Cash Chemists.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(*From the "Trade-marks Journal," October 11, 1916.*)

"Valda"; for fatty acids (1). By Lever Brothers, Ltd., Port Sunlight. 373,908.

"Sticoline" and "Pakyderm"; for chemicals (1). By Griffiths Bros. & Co., London, Ltd., 29 Macks Road, Bermondsey, S.E. 373,951 (Associated), 374,681.

"Antol Case Hard"; for a case-hardening chemical (1). By A. Pidgen, City Road, E.C. 374,216.

"Danzo"; for vermin-destroyers (2). By Danysz Virus, Ltd., 52 Leadenhall Street, E.C. 374,194. (Associated.)

"Brysogel"; for disinfectants, etc. (2). By the U.K. Chemical Products, Ltd., Imperial House, Kingsway, W.C. 374,562. (Associated.)

"Vervik"; for a corn-cure (2). By W. K. Young, Newbridge. 373,966.

"Tannex"; for surgical catgut (11). By Allen & Hanburys, Ltd., 37 Lombard Street, E.C. 374,713.

"Tiger White"; for perfumery, etc. (48). By Hodgson & Simpson, Ltd., Liverpool. 374,189. (Associated.)

Device of Pierrette and flags, with word "Vaudeville"; for toilet-articles (48). By The British Drug Houses, Ltd., City Road, N. 373,685.

"Lotus Land," "Persephone," "Rosamund," and "Apres la Pluie"; for perfumery, etc. (47). By the Standard Tablet & Pill Co., Ltd., Hove. 374,556/57/59/604.

"St. Peoltens"; for perfumery, etc. (48). By Harrod's Stores, Ltd., Brompton Road, S.W. 374,683.

"Cosmos"; for perfumery, etc. (48). By H. Bromley & Co., Ltd., Warple Way, Uxbridge Road, W. 374,715.

(*From the "Trade-marks Journal," October 18, 1916.*)

"Desro"; for chemicals (1) and for food-substances (42). By R. Rhodes & Co., Stockport. 374,569/70.

"Poultragen"; for animal medicines (2). By D. Foulis, 730 Old Kent Road, S.E. 374,298.

Facsimile signature "J. Oswin Baker"; for veterinary oils (2). By R. Hough & Co., 36 Cannon Street, Birmingham. 374,454.

"B'Kure" and facsimile signature "J. C. Allsopp" ("B'Kure" disclaimed); for a bee-medicine (2). By J. C. Allsopp, West Bridgford, Notts. 374,493.

Facsimile signature "William Evans"; for an ointment (3). By W. Evans, 31 South Street, Dowlais. 371,292.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Complaint against a Medical Man.

The adjourned Committee of Inquiry under Article 27 of the National Health Insurance (Medical Benefit) Regulations (England), 1913, was held at the office of the Insurance Commissioners, Buckingham Gate, London, S.W., on October 23, for the purpose of ascertaining whether the continuance of Dr. Edmund Heskin upon the panel of medical practitioners is prejudicial to the efficiency of the medical service of the insured persons (see *C. & D.*, October 14, p. 45). Mr. J. Fischer Williams, barrister, was the chairman, the other members of the Committee of Inquiry being Dr. Arnold Lyndon and Dr. E. Collingwood Andrews.

It will be remembered that Dr. Heskin is serving a term of imprisonment for the manslaughter of an Insurance patient, and that the Commissioners initiated the present inquiry.

Mr. M. L. Gwyer, for the Commissioners, called Mr. A. T. Pantry, the husband of the deceased woman, who gave evidence as to the identity of Dr. Heskin.

Mr. Herbert, for the accused, called Dr. F. R. Sinton, Leeds, who gave the Committee information regarding Dr. Heskin's practice.

Mr. Herbert then addressed the Committee. He contended that the one error, however grievous, did not justify the finding that Dr. Heskin's presence on the panel was prejudicial to the efficiency of the medical service. He asked that Dr. Heskin might be allowed to withdraw from the panel so as not to prejudice the sale of the practice.

The Chairman intimated that the finding of the Committee would be promulgated in due course.

Reports from Local Centres.

ENGLAND.

Birmingham. The Insurance Committee on Tuesday agreed to allow chemists the additonal 0.3*d.* for each prescription. The Chairman of the Joint Committee did not admit that chemists had proved their case.

Grimsby.—A meeting of the Insurance Committee was held on October 19, Mr. J. Whiteley Wilkin (Chairman) presiding. The Finance and General Purposes Sub-Committee reported that they had confirmed payments amounting to 99*l.* 12*s.* 10*d.* for July, 77*l.* 14*s.* 6*d.* for August, and 80*l.* 16*s.* 7*d.* for July and as advances for August made to chemists for the supply of drugs and appliances. On the recommendation of the Finance Committee it was decided that Mr. C. H. Ashton be informed of his removal from the panel of pharmacists, on the instruction of the Commissioners, and that no prescriptions dispensed by him after notice to him of his removal be paid for. The Committee refused to support an application for exemption from military service of Mr. J. E. Chapman, chemist and druggist, 66 Wintringham Road.

Hertfordshire.—At the meeting of the Insurance Committee on October 23, a report regarding the new conditions of agreement for the supply of drugs and appliances for 1917 was adopted without discussion.

Kent.—A meeting of the Insurance Committee was held on October 25. The Finance Sub-Committee reported that chemists' accounts for 1915 could not yet be paid in full, and recommended the payment up to 99.81 per cent. In regard to the report of the Medical Benefit Sub-Committee recommending the adoption of a county formulary, Mr. J. Earson said one of the dangers pointed out to him by chemists was that these prescriptions are going to be numbered, which made it an easy thing for mistakes to arise. The Chairman said the matter was settled at a conference at which all parties were represented. They were then assured that numerals were practically agreed to by the chemists. The report was adopted. The Pharmaceutical Committee have reappointed Messrs. A. E. Hobbs, J. H. Cuff, and J. E. French on the Pharmaceutical Service Sub-Committee for the year 1916-17, and Messrs. J. E. French and A. E. Hobbs will act as representatives of the latter Sub-Committee on the Joint Services' Sub-Committee. The Pharmaceutical Service Sub-Committee reported having given consideration to a complaint raised by a doctor on behalf of an insured person against a chemist for delay in supplying valerian pills. The Sub-Committee recommended that the chemist be informed that such delay must not occur in future. The report was adopted.

Liverpool.—Mr. Wm. P. Evans presided at a special joint meeting of the Liverpool Chemists Association and the Liverpool Pharmaceutical Committee held at the Royal Institution on October 25, there being a large and representative attendance, and a most friendly discussion generally favourable to remaining on the dispensing panel for 1917. Mr. E. T. Neathercoat (Vice-President of the Pharmaceutical Society) spoke on "New Conditions of National Health Dispensing." The application of the Sale of Food and Drugs Act and the analyses thereunder of Insurance prescriptions, he said, did not cause pharmacists any alarm. If, however, the object is to protect the insured person, the protection ought to extend not only to the city pharmacist on the panel but likewise to the rural doctor who dispenses his own medicines. (Cheers.) The demand for accuracy in quantities ought not to apply to medicines dispensed from bulk, the strict accuracy of which could not be guaranteed. Passing on to ask, "Is it worth while for pharmacists on the panel to renew contracts for 1917?" he said he had always held that the remuneration offered for 1916 was inadequate. It had promised to be worse at the end of 1916 than at the beginning, the decline being partly due to the war. In these circumstances the Government had offered an improvement of 0.3*d.* on the establishment-charge both for 1916 and 1917. He recommended the pharmacists to accept the offer and fill the panels for the coming year. Personally he was, of course, far from satisfied with the revised offer. By the end of the war the pharmacists would have established their position as to their national service in the supply of medicines, and better terms should be available. He hoped the pharmacists who had not yet filled up their ballot-papers would vote at once. In future regulations he trusted to see the abolition of "Rep. mist." and stock mixtures. Turning to the new Order for compulsory closing, he could only advise pharmacists to obey the law. He assumed that the difficulty with regard to Insurance prescriptions, which came in late in an evening, had been taken into account. He would not accept the responsibility for defining "medicines" or "surgical appliances." He took it that the new Order extended to Sunday evenings. Mr. W. H. Clubb moved a vote of thanks to Mr. Neathercoat and endorsed his remarks. Mr. Valentine Last, in seconding, said he did not find pharmacists remaining on the panel because they were offered a profitable business. They all hoped for better things. Mr. D. H. Evans thought the Pharmaceutical Council had fixed its minimum demand too low. Mr. John Bain was sure that the Liverpool pharmacists would welcome the application of the Sale of Food and Drugs Act. (Hear, hear.) Mr. Moreton Parry commended the concise and authoritative address. In reply to the vote of thanks and to questions, Mr. Neathercoat said he thought a child's feeding-bottle might be considered a "requisite." Anyone who wished to go off the panel must give notice in writing. He saw nothing in the Closing Order to prevent the supply of medicines in Liverpool up to 9 P.M. as at present, and on this point he would recommend negotiation with the Insurance Committee. The condition of "adequate service" imposed by the Insurance Committee followed on the concession of 0.3*d.* for 1916, and formed a desirable precedent. The Pharmaceutical Society itself might ask for conditions in future contracts. The proper way to pay pharmacists would be by an increase on the dispensing-fees. (Applause.) The President suggested that Mr. Neathercoat should be invited to repeat the visit next year. (Cheers.) He would then be able to satisfy a critic that the Pharmaceutical Council were seeking better terms for 1918. The meeting voted in favour of suggesting to the Insurance Committee eight o'clock as the hour up to which medicine could be obtained. A suggestion that all should "go straight home at seven o'clock" had evoked much laughter.

London.—A meeting of the Insurance Committee was held on October 25, when the reports of various Committees were presented. The Establishment Sub-Committee reported on the staffing of the prescription-pricing department. It is estimated that the expenditure on salaries and wages will amount to 2,796*l.*, rising by annual increments to 3,705*l.* The chief technical officer is paid 300*l.*, with annual increments of 15*l.* till 400*l.* is reached. The Medical Benefit Sub-Committee reported that the panel of chemists had been altered as follows: *Additions*: Chas. Davies, trading as A. Pellew, 374 Old Kent Road, S.E.; F. Ellis, trading as C. Gadd & Son, 310 Gray's Inn Road, W.C., branch establishment; and H. F. Ferris, 349 High Road, Lee Green, S.E. *Withdrawals*: Kennett's, Ltd., 349 High Road, Lee Green, S.E.; Albert Pellew (deceased), 374 Old Kent Road, S.E.

Middlesex.—A meeting of the Pharmaceutical Committee was held on October 18 at the Holborn Restaurant, Mr. Herbert Skinner in the chair. The terms of service for

1917 were explained by the Chairman, as well as the means to be adopted for taking a ballot. A discussion followed, and it was decided "that while still regarding the dispensing-fees as inadequate, the Committee consider the time inopportune for more drastic action, and recommend the Middlesex chemists to accept the terms of service and remain on the panel for 1917."—The report of the prescription-checking department contained the following paragraphs:

Figures now available for January to June reveal the fact that the moneys set apart for the purposes of the Drug Fund in Middlesex, reckoning only 1*s.* 6*d.* per annum for each insured person, would have sufficed to pay the chemists' accounts at the average rate of 7.9*d.* per script. Actually, however, the amount paid has not exceeded an average of 7.1*d.* per script, the difference being equivalent to a loss of nearly 11 per cent. The proposed retrospective payment of an additional 0.3*d.* per prescription as establishment-charge would increase the average cost per script to a trifle over 7.4*d.*, and leave a net loss of less than 7 per cent. on the basis of an allowance of 1*s.* 6*d.* per insured person. This means that there is a gradual whittling away of the Middlesex chemists' remuneration, the savings effected by the Insurance Commissioners being employed to pay for the cost of pricing prescriptions and getting out elaborate series of statistics for the use of Panel Committees, in addition to making up the shortage in areas where the supply of drugs and appliances is much less economical than in Middlesex.

The Pharmaceutical Committee's Secretary has sent a printed statement regarding the matter to each dispensing chemist in the county.

West Bromwich.—A meeting of the Insurance Committee was held on October 18, when the report of the Finance and General Purposes Committee was presented and passed. This dealt with the settlement of accounts for 1915 and the payments on account during 1916. A report was also received from the West Midland Joint Committee Pricing Bureau, which was satisfactory.

WALES.

Glamorganshire.—At a meeting of the Insurance Committee on October 23, a discussion arose on the question of pricing and checking chemists' accounts, the suggestion being made that matters should be left in the hands of the Cardiff Committee for another year. The Chairman (Mr. W. P. Nicholas) said he was in favour of the appointment of a National Committee to do this work, but it was agreed that the present arrangement should continue for another twelve months.—Meetings of panel chemists have been held at Cardiff on October 18 and at Port Talbot on October 19, to discuss the new terms offered for Insurance dispensing. Acquiescence was given owing to the present need for national unity.

Merthyr Tydvil.—A meeting of the Pharmaceutical Committee was held on October 18, Mr. V. A. Wills in the chair. The Secretary (Mr. E. J. Powell) being now on active service, Mr. Ivor Powell was appointed Secretary *pro tem.* Statistics submitted to the meeting showed that for the period January-June, 28,962 scripts were dispensed at a cost of 782*l.*, and an average per script of 6.44*d.*

Montgomeryshire.—At the meeting of the Insurance Committee on October 17, it was reported that the average cost per prescription and the average cost per insured person were lower in Montgomeryshire than in any other county in Wales.

Pellagra.

This Disease was unknown in Europe until a few years ago. Now it is also known in the United States, and the Hygienic Laboratory has issued a bulletin about the effect of vegetable diet on it. This gives the results of an exhaustive series of experiments in the feeding of monkeys and rats with an exclusively vegetable diet. The animals were killed at the end of each period of feeding, and analyses made of the chemical constitution of different parts of the central nervous system. These analyses are compared with similar analyses of the central nervous system of human beings who had died of pellagra, a disease more common in America and Italy than in England, in which certain skin-changes are associated with vague mental disarrangements. The result of a comparison of these very elaborate experiments seems to show that the chemical changes in the central nervous system of animals fed on exclusively vegetable diet are practically identical with those found in pellagra. A histological examination shows extensive degeneration of nerve tracts in the spinal cord very similar to those found in pellagra. The experiments should have an important result in settling the origin of this disease, which has by some been attributed to an organism present in certain districts (such as river valleys) only.

Associations' Winter Session.

Bedfordshire.—A meeting of the Bedfordshire Pharmaceutical Association was held on October 19, when it was resolved by all the members present to continue on the panel during 1917, subject to the staffs of panel chemists not being further depleted by the military authorities. It was agreed that efforts should be made to get Insurance prescriptions priced in duplicate, so that the duplicate scripts may be checked by the sender at his leisure when they arrive back from the pricing office.

Birmingham.—The annual meeting of the Birmingham Pharmaceutical Association was held at the University, Edmund Street, on October 25, Mr. E. W. Mann, B.Sc., F.I.C. (President), in the chair. The outstanding features of the report of the Executive were the references to the activity of the Minimum Prices Committee and the inauguration of the out-patients' dispensing scheme, which has now been extended to include the Queen's Hospital. With regard to the balance-sheet, the money in hand has been seriously diminished, and now stands at about 20*l.* The report and balance-sheet were adopted. The following elections were then made: *Minimum Price Sub-Committee*—Messrs. C. Thompson, H. H. Marshall, J. W. Atkinson, W. W. Whittock, T. L. Reeve, and E. S. Francis. *Hospital Out-patients' Dispensing Sub-Committee*—Messrs. J. A. Radford, F. Smith, J. Wakefield, E. W. Mann, and the next President. *Council*—Messrs. F. Smith, J. A. Radford, E. W. Mann, J. W. Atkinson, E. Corfield, H. H. Marshall, A. W. Southall, and F. W. Smallwood. Mr. W. Izon moved an alteration in the rules to the effect that the President, Vice-Presidents, Treasurer, Secretary, and Librarian be elected by the annual meeting, and become thereby *ex-officio* members of the Council, but the meeting was opposed to change in the present method of election. The sale of cocaine circular and the new early-closing regulations were also discussed.

Breconshire.—At the last meeting of the Breconshire Pharmaceutical Association, the following officers were elected for 1917: *Chairman*, Mr. Morris (Brecon); *Secretary*, Mr. Gwillam (Brecon).

Cambridge.—The annual meeting of the Cambridge Pharmaceutical Association was held on October 20, the President (Mr. Alderman A. S. Campkin, J.P.) in the chair. The Secretary (Mr. S. F. Barker) reported on the work of the Association, and also submitted the report of the Pharmaceutical Committee for the past year. Mr. Course reported on the Junior Section, and pointed out that as so many members had joined the Colours, including the Secretary, the work had naturally suffered. Mrs. Course had, however, offered to help with the secretarial work, and in addition to act as librarian. The Treasurer (Mr. H. Flanders) reported a balance on the right side, and a subscription was ordered to be sent to the Benevolent Fund. It was decided to recommend the adoption of a monthly price-list. With regard to the suggestion of the Panel Committee that a rota of panel chemists should be formed for service on Thursday evenings, it was resolved that a deputation should confer with the Panel Committee on the subject. The Chairman then reviewed the work of the past session, and also referred to the work of the Pharmaceutical Council, laying special emphasis on the work in Parliament of Mr. W. S. Glyn-Jones. Mr. Alderman A. S. Campkin was then unanimously re-elected President, and the other officers were also re-elected, with the addition of Mr. Course to the Committee.

Dewsbury.—A meeting of the Dewsbury Pharmacists' Association was held on October 23, Mr. S. N. Pickard (Ossett), President, in the chair. There were present eleven other members and Mr. R. J. H. Day (Hon. Secretary). The President referred to the death of Mr. J. L. Heaton, of Batley, and a vote of condolence with the relatives was passed by the members. Mr. Pickard afterwards delivered his presidential address.

Ealing.—The opening meeting of the Ealing Pharmacists' Association was held on October 17 at Buol's Restaurant, Ealing, the President (Mr. A. A. Senior) in the chair. Dates for the session were fixed, and it was also agreed to hold two whist-drives, all profits to be devoted to charity. The first whist-drive will be on November 22. Mr. Skinner explained the new terms for Insurance dispensing in 1917. Mr. J. Humphrey gave an account of the checking of scripts at the pricing bureau and useful statistics bearing on the remuneration.

Flintshire.—At a special meeting of the Flintshire Pharmacists' Association, held at Flint on October 19, Mr. P. J. Ashfield (President) in the chair, it was decided to

accept the new terms for Insurance dispensing for 1917 under protest.

Glamorgan Valleys.—The annual meeting of the Glamorgan Valleys Chemists' Association was held at Pontypridd on October 11, Mr. Daniel Arnott in the chair. The election of officers for the year took place as follows: *President*, Mr. J. W. Richards (Tonypandy); *Vice-President*, Mr. T. Davies (Porth); *Treasurer*, Mr. Lewis (Maerdy); *Hon. Secretary*, Mr. W. Oswal Davies (Pontypridd). It was resolved, in view of the area covered by the Association, to rename it the Rhondda Valleys Chemists' Association. A vote of thanks was given to Mr. Arnott, the retiring President, who has devoted much time to the advancement of pharmacy.

Harrow.—The annual meeting of the Harrow Pharmacists' Association was held on October 19, the President (Mr. Rigden) in the chair. The annual report and balance-sheet were adopted. The following officers and Committee were then elected: *President*, Mr. Bright (Willesden); *Vice-President*, Mr. Dwelly (Harlesden); *Secretary* and *Treasurer*, Mr. Hall (Pinner); *Assistant Secretary*, Mr. Dwelly (Harlesden); *Committee*, Messrs. Brinson, Cox, Frank, Hoare, Humphrey, Leefe, Rigden, and Taggart. It was decided to meet on the third Thursday in each month (December excepted) at Harrow.

Hartlepools.—A meeting of the Hartlepools Pharmacists' Association was held at the Oddfellows' Hall, York Road, West Hartlepool, on October 12. The Secretary reported that he had received a number of communications respecting the checking of Insurance prescriptions, stock mixtures, the Central Checking Bureau, earlier closing, and Insurance dispensing arrangements for 1917, and the meeting approved of the steps taken in dealing with these.

Huddersfield.—The annual meeting of the Huddersfield Chemists' Association was held on October 17, when it was decided that owing to the war all the officers be re-elected for the coming year. The President (Mr. Vincent Shaw) was appointed to attend the meeting of the Yorkshire Federation of Chemists' Associations on October 25, to decide whether the new terms for Insurance dispensing for 1917 should be accepted. A discussion took place regarding uncontrolled glycerin, and the Secretary was instructed to write to Mr. Woolcock, asking him to suggest to the Minister of Munitions that the sale of glycerin should be prohibited except for medicinal purposes. In regard to the early closing of chemists' shops, it was agreed that the hours be as follows: Monday, Tuesday, and Thursday, 7 P.M.; Wednesday, 1 P.M.; Friday, 8 P.M.; Saturday, 9 P.M.

Irish Assistants.—At a Committee meeting of the Irish Chemists' Assistants' Association, held at Moran's Hotel on October 17, it was announced that Mr. O'Lehane, organiser and General Secretary of the Irish Drapers' Assistants' Association, had consented to address a meeting of the Association on Sunday, October 29, at 4 P.M., in the Grand Central Hall, Exchequer Street, Dublin. The subject of Mr. O'Lehane's address will be "Organisation and its Advantages."

Lancs (N.E.).—A meeting of the North-East Lancashire Chemists' Association was held at the Victoria Hotel, Blackburn, on October 19, Mr. R. Lord Gifford, J.P. (President) in the chair. The Secretary read circular P.S. 30 from the Pharmaceutical Society, inviting Associations to submit suggestions upon matters dealing with the protection of chemists and druggists. Reference was made to the new closing order under the Shops Act, which comes into force on October 30. It was stated that provided satisfactory arrangements can be made with regard to Insurance dispensing, chemists are prepared to close earlier. The matter was referred to the Pharmaceutical Committee for consideration. The question of arranging a minimum retail price-list was discussed. Mr. Isherwood reported that the recommendation of the Sub-Committee appointed to consider the matter was to limit the operations at first to the sale of poisons. It was suggested that a minimum of 3*d.* be charged for any sale requiring entry in the poisons-book; that for sales under Part II. of the schedule a minimum charge of 2*d.* be made; and that no patent medicine containing a scheduled poison be sold under face value. These principles were agreed to by the meeting, and Mr. Isherwood was asked to prepare a list of prices to cover local requirements and submit copy to every member for approval at the next meeting. The members then considered the terms and arrangements for the 1917 drug contracts. Circular P.S. 29 from the Pharmaceutical Society was discussed, and all the members present voted in favour of continuing on the panel for 1917.

Lancashire.—The first meeting of the Federation of Lancashire Associations was held in the rooms of the Manchester Pharmaceutical Association on October 18. Delegates were present from Warrington, Liverpool, Lancashire County, Blackpool, Salford, Wigan, Waterloo, Rochdale, Preston, Oldham, North-East Lancashire, Lancaster, Farnworth, Bury, and Burnley. Mr. W. Kirkby, M.Sc. (President), welcomed the delegates and urged the need for co-operation. Mr. F. W. Bates, J.P., then outlined the origin of the Federation and the constitution. A resolution that the Federation be formed was carried, and the following officers were elected: *President*, Mr. F. W. Bates, J.P. (Manchester); *Vice-Presidents*, Messrs. A. Peake (Earlstown) and J. B. Shattock (Lancaster); *Hon. Secretary*, Mr. W. H. Clubb (Liverpool); *Treasurer*, Mr. C. A. Critchley (Blackburn). The constitution and regulations of the Federation were then settled.

Leeds.—The first meeting of the session was held at the Grand Central Hotel on October 11, the President (Mr. N. N. Armitage) in the chair. Votes of condolence were passed with the relatives of the late Mr. Harry Hobbs and Mr. Arthur Tennant. The President then delivered his inaugural address, in which he urged the need for unity and the adoption of a minimum price-list. Things could be accomplished now that formerly were only talked of. Efforts must be made to strengthen the position of chemists, and to this end there must be less selfishness among them. In concluding, the President said the individual trader is doomed to disappear gradually. Mr. Hayes, Mr. J. H. Beacock, Mr. H. Gilleghan, Mr. R. Riley, Mr. H. O. Eaton, Mr. F. C. Long, and others took part in the subsequent discussion, which centred round the provision of a minimum price-list. It was eventually decided to adopt a locally revised list. The hour of meeting in the future is to be seven o'clock instead of nine.

Leith.—The annual meeting of the District Chemists' Association was held in Wilson's Rooms, Leith, on October 23, Mr. J. Noble (President) in the chair. The report of the Secretary (Mr. G. D. Thomson) and that of the Treasurer were submitted and adopted. The latter showed a satisfactory balance in hand. All office-bearers were re-elected, and guinea donations were voted to the Benevolent Fund and to the wounded soldiers in Leith Hospital. Mr. James Nesbit gave a satisfactory report on Insurance dispensing affairs and business in Leith, while Mr. Rutherford Hill's remarks on earlier closing were satisfactory.

London (S.E.).—A meeting of the South-East London Pharmacists' Association was held at Maitland House, Greenwich, on October 19, Mr. A. J. Wing (President) in the chair. Mr. Grimwade was unanimously elected on the Committee, in place of the late Mr. Curnow, Blackheath. Mr. C. E. A. Goode then addressed the meeting on the proposed new terms for Insurance dispensing. He set forth the efforts that had been made by the Pharmaceutical Society to procure better terms of service, and gave it as his opinion that all that could be done had been done. It was only after a stiff fight that the small increase was obtained. Mr. Goode was thanked for his address. On the question of early closing, Mr. Sayers suggested that chemists should agree to close for ordinary business at 7 P.M., and continue to supply medicine up to 8 P.M.

Manchester.—A meeting of panel chemists was held on October 18, under the auspices of the Manchester Pharmaceutical Association. Mr. W. Kirkby, M.Sc. (President) was in the chair, and he called on Mr. F. W. Bates, Chairman of the Pharmaceutical Committee, to explain the terms offered for Insurance dispensing for 1917. Mr. Bygott obtained an assurance from Mr. Bates that the words "in consideration of their undertaking a continuance of the supply of drugs and appliances at increased expense to the individual contractor" do not mean what they say. Mr. Simmonds described the *C. & D.* article calling attention to this clause as "very misleading." Mr. Bates mentioned that stock mixtures would not come under the Sale of Food and Drugs Act clause in the agreement. Mr. Hershberg, in reply to Mr. Griffiths, explained that it has not been found necessary to check more than 5 per cent. of the Insurance prescriptions as the pricing is so well done. He also mentioned that there is no standard for aqueous tinctures. It was subsequently agreed to approach the Insurance Committee to arrange that chemists can close for the supply of Insurance medicine at 8 P.M. by altering the surgery hours of panel doctors.

Middlesbrough.—A meeting of the Middlesbrough Chemists' Association was held on October 17, when the terms for 1917 Insurance dispensing were discussed. The change in the establishment-charge was welcomed, but, apart from this, it was regretted that increased remuneration is not forthcoming. The members, however, voted in favour of continuing service. Attention was drawn to the new clause in the agreement relating to the analysis of medicines under the Sale of Food and Drugs Act, and care

was advised when dispensing medicines from bulk containing sediment or volatile ingredient. It was also recommended that bottles should be measured, or mixtures prepared in a measure, to ensure a correct proportion of ingredient. The President then explained the objects of the Pharmaceutical Society's Parliamentary Fund.

Middlesex.—A meeting of the Executive of the Middlesex County Association was held at the Holborn Restaurant, London, W.C., on October 18. Among the matters discussed were earlier closing and arrangements for dispensing.

Monmouthshire.—The annual meeting of the Monmouthshire Pharmaceutical Association was held at Pontypool on October 19, the President (Mr. Parry Williams) in the chair. The election of officers took place as follows: *President*, Mr. H. W. Fix (Pontypool); *Vice-President*, Mr. F. Clarke (Bedwas); *Treasurer*, Mr. A. C. Sumption (Blackwood); *Hon. Secretary*, Mr. B. Thomas (Cwmbran). It was decided to accept the new terms for Insurance dispensing for 1917.

Oldham.—The opening meeting of the Oldham Pharmaceutical Association on October 10 took the form of a supper at the Café Monico, Union Street, when nearly forty members and friends were present. Songs and recitations were given by Mr. Hugh Beech, Mr. Harold Gaines, Mr. Frank Newby, and Mrs. Allan. A most enjoyable evening was spent.

Salford.—The opening meeting of the session of the Salford Pharmacists' Association was held on October 12, Mr. Jones (Vice-President) in the chair. There were thirteen other members present. The principal business dealt with was in regard to Federation, retail price-list, and Insurance dispensing. The meeting unanimously adopted a minimum retail price-list.

Southend-on-Sea.—A meeting of the Southend-on-Sea Association of Pharmacists was held on October 19, Mr. Sydney F. Body (President) in the chair. It was decided to adopt a rota for Insurance dispensing on Wednesday afternoons and Sundays. No objection was offered to the clause in the new Insurance contracts dealing with sampling under the Sale of Food and Drugs Acts. The third Thursday in each month was fixed for the meetings of the Association during the winter session.

Thames Valley.—The annual meeting of the Thames Valley Pharmacists' Association was held at Kingston-on-Thames on October 25, when there was a full attendence of members. Before the commencement of the business Mr. Alfred Higgs, J.P., as the senior Past-President present, referred to the loss that the Association had sustained in the death of their late President, Mr. C. J. G. Bunker. The Committee were re-elected *en bloc*, with the addition of Messrs. W. J. Bray (Teddington), J. G. Orry (Tolworth), and W. Venning (Hounslow). Mr. Fred. Cherry (Walton), was elected *President* for the ensuing year. Messrs. Batty (Surbiton) and F. J. Plomley (Kingston) were elected *Vice-Presidents*, Mr. W. H. Peake (Twickenham) *Secretary*, Mr. C. J. Palmer (Twickenham) *Auditor*, and Mr. A. Higgs (Kingston) *Treasurer*. Mr. Cherry then took the chair, and thanked the members for the honour they had bestowed upon him. The annual report was read by the Secretary, and the Treasurer presented the financial statement. Mr. Clement, as representing the Middlesex Pharmaceutical Committee, gave a *résumé* of the work during the past year. In regard to Insurance dispensing the meeting passed a resolution that the increased remuneration offered on the establishment-charge is still insufficient, and urging the Pharmaceutical Society to do their utmost to obtain increased fees.

Torquay.—The quarterly meeting of the Torquay Pharmacists' Association was held on October 18, the President (Mr. J. Taylor) in the chair. Mr. March reported on the meeting of the County Association Committee, which had been held at Exeter earlier in the day, and a resolution was passed recommending the continuance of the members on the Insurance panel for 1917.

Warrington.—At a meeting of the Warrington Chemists' Association, held on October 17, the President (Mr. J. Rymer Young, J.P.) in the chair, the Secretary reported that he had been notified officially that chemists' accounts for Insurance dispensing during 1915 would be paid in full. The suggested arrangements for Insurance dispensing for 1917 were discussed, and it was unanimously resolved to recommend the members to accept the terms offered by the Commissioners.

West Bromwich.—At a meeting of the West Bromwich Pharmaceutical Association on October 17, Mr. G. A. Mallinson, Superintendent of the Central Checking Bureau, gave an address on the work of the Bureau.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., October 26, 5.30 p.m.

No expansion of business can be recorded this week, and purchases are still restricted to relatively small quantities. The bulk of the changes in values is in favour of buyers, these including a reduction in the prices of amidopyrin, hexamine, methyl salicylate, salol, acetic acid, tartaric and citric acids. Sulphonal is firmer, and milk-sugar is scarce and dearer. Among oils, castor, cotton-seed, and linseed are higher: rape and soya are firmer. Other changes include a reduction in cocoa-butter, isinglass, and ergot. Exorbitant prices are still asked for chamomiles. Menthol is dearer at the close.

Higher	Firmer	Easier	Lower
Bleaching-powder	Cloves (Zanzibar)	Acetyl-salicylic acid	Acetic acid
Castor oil (English)	Hydroquinone	Camphor (Jap. ref.)	Amidopyrin
Cottonseed oil	Rape oil	Citric acid	Cocoa butter
Glucose	Soya-oil	Cream of tartar	Ergot
Linseed oil	Sulphonal	Gum acacia (Sudan)	Hexamine
Menthol		Phenazone	Isinglass
Milk-sugar		Tartaric acid	Methyl salicylate
			Salol

Cablegram.

New York, October 25.—Business in drugs is fair. Opium is $1 per lb. dearer at $11.50 for druggists' quality. Peppermint oil in tins is lower at $2.20. Menthol is steady at $3.35. Cascara sagrada has been advanced to 8c., and buckthorn-bark is lower at 20c. Arnica-flowers have advanced to 65c. per lb.

Acetanilide to arrive is offered at 2*s.* 9*d.* per lb. net, the spot value being about 3*s.*

Acetic Acid.—Owing to keen competition prices are again lower, glacial offering at about 115*l.* per ton, but for carboys 120*l.* is asked on the spot; 80-per-cent. pure is 75*l.* in casks and technical 5*l.* less.

Acetyl-salicylic Acid.—The spot price for small quantities is about 26*s.* per lb., and to come forward 25*s.* is asked for B.P. quality. The tendency is still towards easier rates, as larger quantities are coming on to the market, both from home and imported sources.

Amidopyrin is lower, prompt delivery offering at 60*s.* per lb.

Ammon. Chlor. is offered at 52*s.* 6*d.* per cwt. for large crystals, and at 40*s.* for granular.

Ammonia Sulphate.—Firm. Home trade price is 15*l.* 10*s.* for October-March delivery. Export prices are: London, prompt, 25-per-cent., 17*l.* per ton net, naked at works; Hull, 24-per-cent., 17*l.* 15*s.* to 17*l.* 17*s.* 6*d.*; Liverpool, 18*l.*; Leith, 18*l.* 2*s.* 6*d.* spot and 18*l.* 7*s.* 6*d.* for January-June delivery, less 3½ per cent. in bags f.o.b.

Amyl Salicylate for spot or forward shipment is offered at 13*s.* 6*d.* per lb.

Antimony.—Chinese crude is quiet at 47*l.* 10*s.* per ton on the spot.

Betanaphthol of technical quality is offered to arrive at 6*s.* 3*d.* per lb.

Bleaching-powder.—Supplies are difficult to obtain from second-hands, and makers are apparently not in a position to sell, so that 25*l.* per ton is easily obtainable for spot parcels.

Bromides are unchanged, and there is still a fair demand, especially for potash, which is quoted at from 7*s.* to 7*s.* 3*d.* on the spot and 6*s.* 6*d.* to arrive; sodium is 4*s.* 3*d.* to 4*s.* 6*d.* on the spot as to seller, and 4*s.* 3*d.* to arrive; ammonium is 5*s.* 3*d.* to 5*s.* 6*d.* on the spot, and 5*s.* to arrive.

Caffeine.—Pure crystals are offered at from 55*s.* to 60*s.* per lb.

Calcium Lactate.—Supplementing last week's quotation, we understand there are also sellers at 14*s.* per lb.

Camphor Monobrom. is offered at 13*s.* 6*d.* per lb. in kegs.

Camphor (Refined).—Japanese is the turn easier at the moment, with sellers of slabs, ¼-oz. and 1-oz. tablets at 2*s.* 11*d.* per lb. spot; but it is believed that any revival in the American demand would improve prices.

Camphor.—The exports from Japan during July were 423,375 kin, valued at 414,037 yen. During the seven months ended July 31 the exports for the past three years and the destinations were as follows:

To	1914 Kin	1915 Kin	1916 Kin
British India ...	498,990	738,963	892,535
Great Britain ...	269,986	268,964	614,490
France	231,939	408,865	262,750
Germany	289,807	—	—
U.S.A.	282,781	411,801	921,620
Australia	48,419	106,580	51,506
Other countries ...	143,302	231,420	432,460
Kin	1,765,224	2,166,693	3,175,361
Yen	1,576,641	1,956,360	2,978,749

Castor Oil is dearer, English of first pressing in barrels offering at 53*l.* per ton f.o.b. Hull. Good seconds Calcutta in cases is 5*d.* per lb. in Liverpool.

Chamomiles.—The exorbitant price of 250*s.* per cwt. is asked for Belgian *via* Holland, and for good white French even 300*s.* is wanted.

Chiretta.—Holders ask 1*s.* per lb. for fair.

Chloral Hydrate.—To arrive, crystals are quoted at 9*s.* 9*d.* per lb. net, duty paid.

Citric Acid is quoted at from 2*s.* 7*d.* to 2*s.* 7½*d.* per lb. for prompt delivery, being easier.

Citronella Oil.—Ceylon in drums for October-November shipment is offered at 1*s.* 4½*d.* c.i.f., and Java in drums now afloat at 3*s.* 2*d.*

Cloves.—At auction 15 cases fair picked Penang were bought in at 1*s.* 1*d.* Privately, there has been more inquiry, with spot sales of Zanzibar at 6⅞*d.* and 7*d.* now asked.

Cocoa-butter.—At auction 300 cases *Fry's* sold at from 1*s.* 9*d.* to 1*s.* 9⅜*d.*, duty paid, and 100 cases *Sandow's* at 1*s.* 9½*d.* duty paid, being lower; 750 bales *Van Houten's* B (in bond) were bought in.

Cod-liver Oil.—Our Bergen correspondent writes on October 16 that the quotation for finest non-congealing oil is still about 550*s.* per barrel, but business is trifling.

Copper Sulphate is firm at 53*l.* per ton for the usual Lancashire make of 98-per-cent. pure for agricultural purposes.

Cream of Tartar.—The high prices asked over a lengthy period appears to have substantially checked the consumption. There are sellers of 98-per-cent. powder at 180*s.* per cwt.

Ergot.—Spanish is offered at the lower rate of 2*s.* 2*d.* per lb. f.o.b., and on the spot 1*s.* 7*d.* to 1*s.* 8*d.* will buy. Russian has been selling at 1*s.* 6*d.* for sound.

Eucalyptus Oil.—Sales of 60 to 65 per cent. cineol have been made at 2*s.* per lb., with up to 2*s.* 2*d.* asked for higher percentages. *Globulus* can be had at 2*s.* 5*d.*

Ferri et Quin. Cit.—Makers' quotations are from 1*s.* 1*d.* to 1*s.* 3½*d.* per oz. according to packing, the lower quotation being for 25-oz. tins. Ferri et strychninæ cit. is 1*s.* 4½*d.* per oz.

Formaldehyde is offered at 75*s.* per cwt. for 40-per-cent.

Ginger.—Slow in auction; 323 bags washed rough Cochin offered and 76 bags wormy sold at 39*s.*; sound was retired at 45*s.* Jamaica is quiet, fine being quoted at 110*s.*, middling to good 90*s.* to 100*s.*, and common to good common 80*s.* to 85*s.*

Glucose has advanced to 25*s.* 6*d.* per cwt., ex works London, for liquid.

Heliotropine.—Crystals for prompt shipment from the Continent offer at 28*s.* per lb., and on the spot 27*s.* to 27*s.* 6*d.* will buy.

Hexamine is quoted at from 2*s.* 9*d.* to 3*s.* 1*d.* per lb. net as to quantity and seller.

Hydroquinone is rather firmer at from 18*s.* 6*d.* to 20*s.* per lb. net.

Isinglass.—At auction the small supply of 374 packages offered, and the small quantity sold at generally lower prices.

Lemongrass Oil containing 75 per cent. citral is offered at 1⅜*d.* per oz. net on spot.

Liquorice-root.—Common natural is offered at about 56*s.* per cwt. on the spot, and Spanish to come forward at 50*s.* c.i.f. Decorticated is worth 100*s.* to 105*s.* on the spot.

Menthol is dearer and in more inquiry during the last few days. Market closed at 12*s.* 6*d.* for Kobayashi-Suzuki—rather buyers. From Japan 14*s.* 6*d.* c.i.f. is quoted.

Methyl Salicylate.—Spot values are from 7*s.* to 8*s.* per lb. net as to quantity and seller, being lower.

Milk-sugar has been sold at a substantial advance, up to 170*s.* per cwt. having been paid for Dutch powder on the spot, but importers are not keen sellers owing to the increasing scarcity.

Mint Oil.—Japanese dementholised is firmer on the spot in sympathy with menthol, at 4*s.* 6*d.* for Kobayashi-Suzuki.

Musk (Xylol) is offered at 34*s.* 6*d.* per lb. for 100-per-cent. small crystals.

Mustard Oil.—Limited quantities of genuine B.P. are offered at 72*s.* 6*d.* per lb., and forward 70*s.* net.

Oils (Fixed).—*Linseed* is 2*s.* 3*d.* dearer at 43*s.* 9*d.* per cwt. in pipes landed and 44*s.* 9*d.* in barrels. *Cottonseed* is 1*s.* 6*d.* dearer at 41*s.* for crude in pipes on spot, pale refined being nominal, and for sweet refined in barrels from 50*s.* to 54*s.* *Rape* is unchanged; ordinary brown naked on spot is 46*s.*, British refined in barrels is 50*s.* to 52*s.*, and Japanese in cases is 45*s.* 3*d.* c.i.f. for October-November shipment. *Coconut* is firm at 54*s.* 6*d.* for Ceylon in hogsheads on spot and 52*s.* 6*d.* in pipes. Cochin on spot is 56*s.* to 57*s.*, and London pressed is 46*s.* 6*d.* per cwt. Hankow *Wood* oil is firm at 55*s.* spot and 52*s.* 6*d.* c.i.f. *Soya* is 40*s.* c.i.f. on passage for Oriental in cases. Hull (spot) crushed is 44*s.*, and extracted 44*s.* Lagos *Palm* is firm at 42*s.* on spot, and 38*s.* ex quay Liverpool. *Ground-nut* oil is 52*s.* 6*d.* to 60*s.* per cwt.; *Neat's Foot*, 4*s.* 10*d.* to 5*s.* 3*d.* per gal.; *Lard* oil, 70*s.* to 78*s.* 6*d.* per cwt.; *Seal*, 40*l.* to 50*l.* per tun; *Whale*, 45*l.* to 49*l.*; bright *Sperm*, 45*l.* to 50*l.*; *Cod*, 40*l.* to 45*l.*; *Olive*, 54*l.* to 58*l.*, all per tun; *Stearine*, 75*s.* to 90*s.* per cwt.

Paraldehyde is offered at 9*s.* per lb. to arrive, and 9*s.* 6*d.* for prompt delivery.

Patchouli Oil.—Ex a small lot now landing 58*s.* per lb. net is quoted.

Pepper.—Steady but quiet, the value of fair black Singapore being 7⅞*d.*, Tellicherry 9½*d.*, and Lampong 8¼*d.*; fair white Singapore 9¼*d.*, Penang 9¼*d.*, and Muntok 9⅜*d.*, all spot.

Peppermint Oil.—American remains quiet at from 10*s.* 3*d.* to 10*s.* 6*d.* net on the spot, and 10*s.* c.i.f. to arrive. H.G.H. is 14*s.* to 14*s.* 6*d.* on spot as to quantity and seller.

Phenacetin is scarce for early delivery, and full prices are obtainable.

Phenazone.—At the recently reduced price of from 38*s.* to 40*s.* per lb. seems worth attention. The French Government appears to have prohibited exportation.

Phenolphthalein.—From parcels now landing from 80*s.* to 85*s.* net is quoted.

Pimento.—Quiet, with spot sellers at from 3 1/16*d.* to 3⅛*d.* per lb.

Potash Salts.—*Carbonate*, calcined, 80 to 85 per cent. in casks, is offered at 130*l.* per ton. *Metabisulphite* crystals in 1-cwt. kegs is 230*s.* per cwt. *Permanganate* is still obtainable at 7*s.* 6*d.* to 8*s.* per lb.

Pyrogallic Acid.—Resublimed is quoted at 16*s.* and crystals at 14*s.* 6*d.* per lb. net.

Quinine.—The second-hand price still remains at 2*s.* 4*d.* per oz., which is below makers' quotation. A good business is still being done for export.

Salicylates.—The undertone continues easy, with American salicylic acid offering for forward delivery at from 6*s.* 6*d.* to 7*s.*, and spot is from 7*s.* to 7*s.* 6*d.*; sodium salicylate powder is from 6*s.* 6*d.* to 7*s.* 6*d.* to come forward, and 8*s.* 6*d.* to 9*s.* on the spot. On October 12 the American makers reduced their prices to $1.60 for salicylic acid, to $1.55 for salicylate of soda, to $3.25 for salol, and to $1.50 for methyl salicylate.

Salol is offered at from 13*s.* 6*d.* to 14*s.* net for prompt delivery and 13*s.* net to arrive.

Soda Salts.—*Sulphate* in pea crystals in bags is quoted at 9*l.* per ton net, ex warehouse London. *Carbonate* in 1-cwt. kegs at 14*s.* 6*d.* *Sulphate* recrystallised 22*s.* per cwt. in kegs. *Hyposulphite* pea crystals in kegs 15*s.* per cwt.

Soy meets with a jobbing demand at 2*s.* 9*d.* per gallon (duty paid) for Seuloong.

Squill.—Fair white is obtainable at 57*s.* 6*d.*, and seconds at 52*s.* 6*d.* on the spot.

Sulphocarbolates.—Both zinc and soda are offered at 3*s.* 3*d.* per lb.

Sulphonal rather firmer at from 31*s.* to 32*s.* 6*d.* net as to seller.

Tannic Acid.—*Leviss* is quoted at from 5*s.* to 5*s.* 3*d.* per lb. net as to quantity: technical 1*s.* 9*d.* *Gallic* pure is 5*s.* to 5*s.* 3*d.* net as to quantity.

Tartaric Acid is quiet and easier at 2*s.* 8*d.* per lb. for prompt delivery.

Terpineol is offered at from 3*s.* to 3*s.* 1*d.* per lb. on the spot.

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Terpine Hydrate is offered at 2*s.* 3*d.* per lb. for pure crystals for prompt delivery.

Thymol, ex ajowan-seed, is quoted at 32*s.* per lb.

Turpentine shows little change, American closing at 43*s.* 9*d.* on spot; French on spot is 43*s.* per cwt.

Vanillin is offered at from 29*s.* 6*d.* to 30*s.* per lb. for 100-per-cent. as to quantity.

Continental Drug and Chemical Markets.

The following notes principally refer to the Berlin market under date of September 21, 1916:

Alcohol.—The price of spirit, which was advanced in February from m.100 to m.150, was again advanced on October 10 to m.230.

Ammon. Chlor. is extremely scarce in consequence of scarcity of raw material. Most makers have completely retired from the market owing to the commandeering of raw material for war-purposes; prompt delivery is almost unobtainable, and from m.140 to m.150 per 100 kilos. has to be paid for c.p.; from m.135 to m.140 for 98 to 100 per cent. white crystals, and from m.115 to m.120 for 70 to 75 per cent.

Anise.—In consequence of active demand Spanish has become scarce and dearer at from m.260 to m.270 for sifted, and from m.240 to m.250 for natural.

Bromides.—On September 20 several makers advanced the prices, and they are now from m.300 to m.330 per 100 kilos. for potassium crystals; from m.310 to m.340 for powdered; from m.360 to m.390 for sodium; and from m.390 to m.420 for ammonium. These are also the prices for Austria-Hungary and for foreign territories occupied by the Germans.

Caraway-seed.—Dutch is extremely scarce, as the importation from Holland has come to a standstill. From m.310 to m.320 per 100 kilos. is quoted.

Cloves.—The demand for Zanzibar remains active, and the small stocks that remain have advanced to from m.570 to m.580 per 100 kilos.

Condurango remains firm and active, with stocks large enough to cope with the demand.

Coriander is active and dearer. Morocco is from m.130 to m.150, and inland Thuringian is from m.125 to m.130.

Oils (Essential).—*Star-anise* is obtainable in large quantities at m.15 per kilo. Market neglected. *Bergamot* has been in active demand and has advanced to m.80 per kilo. *Caraway* is still quoted at m.35. *Clove* is still obtainable at m.35. *Eucalyptus globulus* is m.16. *Lemongrass* is still to be had at m.9.50. *Patchouli* meets with more interest at m.80. *Siberian pineneedle* is quoted at m.8.50. *Pomeranian* oils are quoted at m.38. *Sandalwood*, East Indian, is obtainable at m.70.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals, during the period from October 11 to 24 inclusive, in the English ports named. Goods in transit are not included. The figures refer to the packages—*e.g.*, cases, bags, barrels, boxes, kegs, etc. The weights, when known, are specified:

To London.

Acetanilide (N.Y.) 6 brls.
Acetic acid (N.Y.) 189 brls.
Acetone 1,012 dms.
Acetone oil 80 dms.
Albumen 6
Alcohol, wood 1,054 dms.
Aloes (N.Y.) 120 cs., (M. Bay) 25 cs.
Ammon. nit. 369 cks.
Ammon. phosph. 171 brls.
Anise oil, star 40 cs.
Antim. ore 4,982 bgs.
Argol (Fr.) 242, (It.) 76 cks. 402 bgs.
Arsenic (Port.) 44
Bismuth ore 105 bgs.
Boric acid (N.Y.) 500 cks. 750 brls. 500 cs.
Calamus oil 4 cs.
Calc. borate (N.Y.) 2,511
Calc. chlor. (N.Y.) 31 dms.
Camphor (Kobe) 550 cs., (Fr.) 50 cs.
Camphor oil 50 cs.
Cantharides (Ch.) 20 cs.
Capsicums (E. Af.) 12 bgs. 23 bls.
Caraway oil (R'dam) 6 cs.
Cardamom - seeds (N.Y.) 37 cs.
Cardamoms 6
Cashew-nuts 20 cs.
Cassia 41
Castor oil (E.I.) 140 cks.
Castor-seed 815
Chemicals, drugs, etc. (Fr.) 350 pkgs., (N.Y.) 2,220 pkgs. 50 cs.
Chemicals, photo. (N.Y.) 23 kgs.
Chewing-gum 650 cs.
Chillies (E. Af.) 48
Chloral hyd. (N.Y.) 12 cs.
Cinchona (E.I.) 23, (Amst.) 692
Cinnamon 50
Citronella oil 20 dms.
Cochineal 51
Cocoa-butter 300 cs. 387 bls.
Coconut oil 714 cks. 5,800 cs. 185 pps. 12 pns.
Copra 4,241 bgs.
Cotton-seed 2,075 tons
Cream of tartar (Fr.) 100 cks.
Cyanimide 250
Drugs (Fr.) 13 cs., (Montreal) 52 pkgs. 166 bxs., (Boston) 268 cs., (N.Y.) 48 pkgs.
Dyestuffs (U.S.A.) 57 cs.
Essential oils (Jv.) 10 dms., (N.Y.) 191 cs. 1 dm. (Fr.) 10 cs.
Eucalypt. oil 101 cs.
Fig syrup 5,750 cs.
G. acacia (B'bay) 217
G. chicle 40 bls.
G. copal 6,001 pkgs.
G. damar 535 pkgs.
G. kauri 756 sks. 766 cs.
G. trag. (B'bay) 30
Gums, undescribed (Fr.) 20 cs., (Amst.) 605 bkts.
Galls 120 cs.
Gambier, cubes 219
Gamboge 10 cs.
Gentian (Sp.) 328
Ginger (Jap.) 168 bgs.
Glucose 5,718
Glyco - thymolin (N.Y.) 300 bxs.
Honey (N.Y.) 25 brls.
Indigo (E.I.) 56, (Jv.) 26
Insect-powd. (Jap.) 55 pkgs.
Iodine, cr. (Jap.) 10 cs.
Ketone 164 dms.
Kieselguhr 1,730 tons
Kola (Cey.) 23
Lavender oil (Fr.) 2 cks. 2 dms.
Lead, manganate (Fr.) 14 brls.
Lead, resinate (Fr.) 30 brls.
Lime-juice (N.Y.) 400 bxs.
Linseed (E.I.) 63,047 bgs.
Liquorice-ju. (Fr.) 10 cs.
Liquorice-powder 100 bgs.
Menthol (Fr.) 20 cs., (Jap.) 31 cs.
Milk-powder 225
Milk-sugar (Amst.) 100 cs.
Mint oil 95 cs.
Nutmegs 50 cs. 56 bgs. 340 pkgs.
Nux vom. 342
Oils, fixed: Arachis 300 cks., fish 1,100 cs., herring 500 cs., olive (Sp.) 363 brls. 185 cks., (Fr.) 4 cks. 14 cs., rape 1,810 cs. 230 dms., soya - bean 129,770 cs. 184 dms., shark 500. cs, sperm 381 dms.
Olibanum 40
Opium (Aden) 150 cs.
Orange-peel (Sp.) 31 bls.
Oxalic acid 3 tons
Papain (Cey.) 45 pkgs. 3 cs.
Pepper, black 3,322 bgs.
Pepper, white 697
Peppermint oil (Montreal) 26 cs., (N.Y.) 111 cs.
Peptone (N.Y.) 32 pkgs.
Perfumery (Fr.) 38 cs.
Petroleum jelly (N.Y.) 470 cs.
Quicksilver (N.Y.) 348 bott.
Quinine (Amst.) 23 cs.
Potash chlor. (It.) 200 brls.
Potash iodide (Jap.) 40 cs.
Rape-seed 2,877
Rhubarb 26 cs.
Roots, barks, herbs, etc. (Fr.) 79 bls.; *seeds* 300 bgs. (N.Y.) 85 bls. 93 pkgs.
Saltpetre 4,344 bgs.
Seedlac 108
Senna 56 bls.
Sesame-seed 2,600 bgs.
Soda ash 420 brls.
Soda caustic (N.Y.) 215 dms.
Soda hypo. (N.Y.) 448 kgs.
Soda nitrate 43,080 bgs.
Soda perbor. (Fr.) 10 cks.
Soda phosphate 11 cks.
Soy 400 cks.
Soya oil 114 dms.
Sticklac 150 cs.
Sulphur (It.) 100 brls.
Tartar (Sp.) 175, (It.) 43 cks.
Theobromine soda sal. (R'dam) 5 cs.
Thorium nit. (U.S.A.) 40 cs.
Vanilla (N.Z.) 33 cs., (Fr.) 7 cs.
Wax, bees' (M'seilles, etc.) 2,390 pkgs., (E.I.) 99, (E. Af.) 285 bgs. 76 bkts., (Egypt) 76 bgs.
Wax, veget. (Jap.) 100

To Liverpool.

Acetic acid (U.S.A.) 317 dms. 106 cbys. 249 brls.
Alcohol, wood 50 dms.
Ammon. anhyd. 550 cyl.
Aniline oil (N.Y.) 25 dms.
Anise (Fr.) 10
Antim. ore 12,400 bgs.
Arachis oil (Fr.) 800 cks.
Argol (Port.) 161 bgs. 20 cks., (It.) 300
Barytes sulph. (It.) 188
Calabar-beans 25
Calc. borate 16,487 bgs.
Calc. carbonate (It.) 501 bgs.
Canary-seed 600
Cassia fistula (R'dam) 20
Chewing-gum 550 cs.
Chloral hyd. (N.Y.) 12 cs.
Copra 301 bgs.
Cream of tartar (Sp.) 74 cks., (Fr.) 9 cks.
Drugs, etc. (N.Y.) 13 bls. 57 pkgs. (Havre) 139 cs.
Essent. oils (Fr.) 27 cs., (It.) 5 cs.
Eucalypt. oil (Aust.) 18 cs.
Fennel-seed (Fr.) 187
Form aldehyde (N.Y.) 254 brls.
Formic acid (Fr.) 10 cks.
Gentian 212
Glucose 1,500
Glycerin (N.Y.) 61 dms., (Fr.) 389 dms., (Aust.) 31 dms.
Gum, almedina 42
Gum copal 2,218 cs.
Hematine paste 5 brls.
Honey (U.S.A.) 100 brls., (Chile) 610
Ipecac. (Bahia) 6, (M. Video) 24
Juniper-berr. 10 bgs.
Kola (W.C. Af.) 12
Lanoline, anhyd. (U.S.A.) 9 brls.
Lemon oil (It.) 2 cs. 8 ½-cs.
Linseed (E.I.) 10,047 bgs.
Liquorice-ju. (Fr.) 83 cs., (It.) 25
Liquorice-root (Sp.) 30
Magnesite 5,015 tons
Medicines (Boston) 29 cs.
Milk-powder 220 cs.
Olive oil (Montreal) 200 tcs., (Sp.) 200 brls., (Fr.) 1,053 cs. 79 cks., (It.) 100 bxs.
Orris (It.) 32 bgs.
Palm-kernels 82,196 bgs. 112 tons
Palm oil 3,753 cks.
Para nitraniline (N.Y.) 6 brls.
Peptone (N.Y.) 10 pkgs.
Perfumed spirits (Fr.) 19 cs.
Perfumery (Fr.) 87 cs.
Quebracho ext. 50,965 bgs.
Quillaia 2,181 bls.
Roots, barks, herbs, etc. (Fr.) 23
Saltpetre 500
Serums (N.Y.) 32 cs.
Soda bichrom. (N.Y.) 32 cks.
Soda, caustic (U.S.A.) 158 dms. 4 brls.
Soda nit. 99,811 bgs.
Soda, sulphide 53 dms.
Squill 13 bls.
Sulphur (It.) 6,110 bgs. 580 brls.
Tartar (Fr.) 182 bgs.
Tartaric acid (It.) 30 brls.
Turpentine 4,763 brls.
Wax, bees' (Sp.) 63 bls., (Chile) 26 cs., (B'deaux) 109

To Bristol.—Formaldehyde (N.Y.) 55 brls.; glucose 360 brls.; olive oil (It.) 10 cs. 47 ½-chts.; potash (Montreal) 11 brls.; turpentine 4,000 brls.; wax, bees' (Fr.) 21 cs. *To Folkestone.*—Chemical prod. (Fr.) 11 pkgs.; drugs (Fr.) 80 pkgs.; perfumery (Fr.) 115 pkgs. *To Goole.*—Cocoa-butter 1,500 bls. *To Hull.*—Barytes (N.Y.) 640 brls.; calc. carbide 1,000 dms.; castor-seed 6,964 bgs.; chemicals (Norw.) 300 cs., (Fr.) 464 pkgs.; condurango (N.Y.) 44; cotton-seed 51,320 cwt. 19,349 bgs.; drugs (Russia) 272 pkgs.; formaldehyde (N.Y.) 40; golden-seal root (N.Y.) 11; herbs (Algiers) 80 brls.; linseed (E.I.) 60,827 bgs.; quinine hydrochlor. (Amst.) 60 cs.; quin. hydrobrom. 65. *To Manchester.*—Acetic acid (N.Y.) 181 dms.; alcohol, grain (N.Y.) 140 brls.; alumina hydrate (N.Y.) 44 brls.; calc. chloride 2,232 dms.; calcium phosph. 85 brls.; carbon tetrachlor. (N.Y.) 10 dms.; coal-tar prod. (N.Y.) 20 brls.; formaldehyde 28; glucose 4,305 brls.; milk-powder 100 cs.; nut oil 90 cks.; paranitraniline (N.Y.) 7 brls.; paranitroacetanilide (N.Y.) 9 brls.; phosphorus (Montreal) 560 cs.; soda acetate (N.Y.) 21 brls.; soda chlorate (Fr.) 1,000 cks., (U.S.A.) 1,000 dms., (Mont.) 284 dms.; soda perborate (Fr.) 10 cks.; soda sulphide 52 brls.; soda tri-phosphate (N.Y.) 20 brls.; tannic acid (Montreal) 20 brls.; tartar emetic (N.Y.) 6 brls.; toluol 30 dms.; turpentine (U.S.A.) 1,950; vaseline 132 cs. *To Southampton.*—Casein (Fr.) 201; bees' wax (Fr.) 20 pkgs.; gelatin 20; linseed 2,000 tons; perfumery (Fr.) 3 cs.

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Insurance Dispensing.

Sir,—At the Conference of representatives of Chemists' Associations held in London in May Mr. Woolcock demonstrated that the establishment-charge of 0.8*d.* was wrong, and that the Peat figures proved that the correct figure is 1.25*d.* In his capacity as a member of the Departmental Committee he also objected to 0.8*d.* per prescription as an establishment-charge. I want to know why Mr. Woolcock, as the Secretary of the Pharmaceutical Society, has agreed to the reduction of 1.25*d.* to 1.1*d.*, after he had so clearly demonstrated that 1.25*d.* is "the correct figure"? I am of opinion that Mr. Roberts' offer of 1.1*d.* per prescription is not properly acceptable, unless it is accompanied by an additional payment based on the number of ingredients in the prescription and on the quantities of the ingredients.—Yours faithfully, M.P.S. (111/31.)

Sir,—I am in agreement with "A Practical Panel Chemist." I think it is a complete admission on the part of Mr. Roberts that we are very much underpaid, yet he expects us to swallow it as a gift after we have earned it. I wonder if he expects men to be strictly honest; his is one way of bringing about dishonest methods. Of course, lawyers must have work, and it must be created, but chemists as a class are not to be tampered with; they are honest, and want honest dealing. I am afraid that if Mr. W. J. Uglow Woolcock should seek to represent us he will be a lawyer first and a chemist afterwards, and it is a well-known fact that in this country we are suffering from an over-dose of law, and get very little justice. The methods of administering this Act go a long way to prove this. Chemists who do not approve of the new terms should send their names and addresses to the Secretary of their local Association as a protest to be forwarded to the proper quarters. Yours faithfully,

West Auckland. J. R. Huck.

A Bristol Panel Hack (112/12) asks: "Why do the chemists submit to such treatment" as has been described in our last two issues? "The doctors have let no consideration of patriotism or fear of embarrassing the Commissioners stand in the way of obtaining their double-weight pound of flesh, and consider us fools for allowing ourselves to be treated as we have been."

A Slave (111/73) asks: "When are panel chemists going to wake up and assert themselves? Why don't they combine more and let each and every local Association know what the other local Associations are doing? If someone with the time to spare would collect the general feeling of the whole country and let all the local Associations know the result before we send in our ballot-papers, it would be an easy matter to arrange a strike. Doctors ventilate their grievances in the newspapers: why don't chemists do the same? Is it fair that the doctors should get an average of 1,000*l.* or so each per annum, all profit, and the chemist only get an average of 100*l.* or so and have to bear the cost of the drugs and appliances out of it?" Our correspondent dispensed in the first quarter of 1914 2,230 prescriptions at 77*l.* 10*s.*, gross profit 58*l.*, less assistant's time, and in the first quarter of this year 2,108 prescriptions at 41*l.* 10*s.*, gross profit 20*l.* 4*s.*; so that there was practically four times as much profit in 1914 for the same amount of work as in 1916. "Assuming that each quarter averaged the same, that would mean a gross profit of 80*l.* for this year, out of which we have to deduct a qualified assistant's salary of over 150*l.* a year, and lose a large trade in put-up mixtures and other goods."

Mr. Sydney F. Body (Southend-on-Sea), a member of the Executive Committee, summarises the position into ten declarations, in the course of which he says that "the measure of our discontent" is Scotland's proof that she is paid 24 per cent. more for Insurance dispensing than England and Wales are. The restoration of this remunerative standard is what chemists have agitated for. Mr. Body then touches on the October 1915 Conference, when the majority gave way, he says, on a false lead upon the establishment-charge of 0.8*d.*, and shows how the May Conference establishment-charge of 1.25*d.* was "a gas balloon," which is now wagging its flabby sides before the eyes of its embittered dupes. He then submits three paragraphs, as follows:

An "act of grace" 0.3*d.* under pledge of our "laying down to it" is to be tacked on to our E.C.s retrospectively for 1916 and continuously for 1917, to cover, forsooth, the alleged increased expenditures in wages and salaries arising out of the war. Truly an amusing paradox in these days of scarcity of labour and depleted staffs. What providential hoodwinking—no unkind inspection or close criticism into the source of information, so quotes Mr. Roberts; merely an act of pity—a sop to comfort. 4.6 per cent. could be so easily spared providing we freeze on to 19.4 per cent. is the comfortable soliloquy of Mr. Roberts.

The whole situation is the necessary result of mask-wearing and humbugging diplomacy on the part of the Executive negotiators. They knew the chemists wanted 24 per cent., and they should have had the courage to have asked for it in plain English. The Scotchmen asked for it in plain Scotch, and they are the masters of the situation.

What is to be done now? The fatal error has been committed. A war which overspreads everything stifles new enterprise towards any resistive movement. Our organisation is loose and its elements scattered. The cohesive spirit of unselfish co-operation has not been kindled. The ballot of to-day leaves the heart of the panel chemists stone cold. They will sign on for service like automatons.

As to the future, Mr. Body says: "Encourage chemists and companies to recognise the expediency of sinking their selfish individualism and standing loyally together in a common determination. Foster a spirit of moral courage and dignified independence! Cease from dissembling methods of negotiation! Be decisive, bold, and uncompromising. Remember, "Thrice armed is he who hath his quarrel just!"

"Once More, the Hat."

Sir,—I have to thank you personally, and I feel sure the great body of business chemists must also do so, for your most excellent article on the Pharmaceutical Society. It would indeed be interesting to know what has become of the 40 per cent. of the hard-worked panel chemists' profit which has entered the Pharmaceutical Society's coffers in connection with the checking of prescriptions. Can you give me any satisfactory reason why I and hundreds of chemists in my position should become M.P.S.? I have been in business for the past ten years, and have frequently asked friends who are members the advantage they gain over myself by being such. Not one of them has advanced any sufficient grounds to influence me in sinking 10*l.* 10*s.* in a life membership. Gladly would I do so, and I am sure many others, if it would in any way advance the welfare of the profession in general, or even aid it in ever such a slight degree. No doubt the subscriptions would help the Society, but to what purpose? The Society has never in recent years had the trade interest of the chemist at heart, and the time has gone by now for any consideration of its professional advantages.

Yours very truly,

S. L. R. (111/31.)

Legal and Miscellaneous Inquiries.

Durham (110/15).—The terms of the new Closing Order are discussed on p. 46.

Ph.C. (111/62).—Any commission paid to an assistant or other employé which is part of the net profits of the business has for income-tax purposes, to be deducted from the profits and charged as part of the expenses of the business.

W. M. B. (113/38).—(1) The new Closing Order on p. 38 and the Editorial Note on p. 46. Cards are not mentioned. (2) The exemption of dispensing chemists from military service chiefly depends upon them being engaged in dispensing Insurance prescriptions, and this is being used to ensure renewal of the agreements.

M. P. S. (104/72).—Ceylon, like other parts of the British Empire and the civilised world, is covered by the principles of the Geneva Convention Act, 1911, which you will find in the *C. & D. Diary*, 1916, p. 363. It is wrong for a druggist in Ceylon or elsewhere to use the Red Cross as a shop-sign, that being for the purpose of trade. See also *C. & D.*, July 22, 1916, p. 51.

M.P.S. (108/8).—We consider that a preparation containing in each fluid drachm a hundredth of a grain of morphine is covered by the H.M. Forces Regulation forbidding the sale to the troops of morphine preparations. The preparation may be dispensed on a doctor's prescription, and so far as its efficacy is concerned a soldier will not suffer by getting Lung Balsam without the morphine.

J. M. A. (225/40), who lives in Scotland, has executed a bond on his property. The bondholder has called upon

him to insure the premises against damage done by hostile aircraft; is "J. M. A." liable to comply with this demand? [In England a mortgagor is not liable to insure the mortgaged property against air-raid risks unless the mortgage so provides. In practice the mortgagor and mortgagee frequently agree to share the cost of insurance.]

Y. Y. W. (101/70).—The usual method of disinfecting feathers is to subject them to dry heat, but this is difficult to carry out unless you have a municipal sterilising-plant available.

H. S. A. (105/19).—Growing Medicinal Plants.—The Board of Agriculture and Fisheries, Whitehall Place, London, S.W., supply free a leaflet (No. 288) on growing medicinal plants. The Central Committee for National Patriotic Organisations, 62 Charing Cross, London, S.W., supply a pamphlet on the subject at 1*s.*, and there is a pamphlet by Mr. E. M. Holmes, which is sold at 6*d.* by Wesley, 28 Essex Street, W.C. Your local Department of Agriculture should also be able to supply you with information.

J. W. C. (103/61).—Catalyst in Fat-hardening.—It is finely divided nickel prepared by reducing the hydroxide that is employed as a catalyst in fat-hardening. The hydrogen used must be free from sulphuretted hydrogen, as small quantities of the latter gas are sufficient to stop the reaction.

October (98/110).—Bath-tablets.—We have not a formula of the kind you require, but as a basis you might use washing-soda, which readily melts with heat, and could be poured into moulds as you desire. The perfume and colouring matter will need to be incorporated with the soda before melting it, so as to ensure even distribution.

Carbon (73/31).—Naphtha.—This term is applied to a number of products obtained by the destructive distillation of wood, shale, coal, and bone, and to a petroleum distillate of sp. gr. 0.690 to 0.700. If the naphtha you are using as a motor-fuel is suspected to contain sulphuric acid, it could be readily freed from it by shaking with a solution of carbonate of soda and allowing the watery layer to separate.

Minoro (97/3).—Gapes in Chickens.—An effective method of treating gapes in chickens by the powder method is to blow quicklime or bleaching-powder into a box in which the animals are confined. This has the effect of making the birds cough violently, and during the process the worms which cause the disease are ejected. Any light powder impregnated with a pungent odour or vapour answers. The volatilisation of cayenne, cresol, or eucalyptus is also practised for the same end.

Phenacetin (64/25).—Powder for Gapes.—This is a method of evolving chlorine to the fumes of which the birds are exposed, with the object of destroying the gapes parasite. The powder is a mixture of equal parts of manganese dioxide and salt. The powder is mixed in a flask with four parts of a mixture of equal parts of sulphuric acid and water, and then warmed. The usual laboratory method is to heat gently one part of manganese dioxide in small lumps with four parts of hydrochloric acid. The evolved chlorine is led into the confined space occupied by the fowls affected with gapes.

A. J. S. (97/39).—Drench for Swollen Udder in Cattle.—We regard rubbing or massage of the udder in mammitis as of great importance as an accessory treatment to internal medicine. Drenches generally contain tinct. aconiti or pot. nitr., but the following is better still:

Potass. iod.	ʒiv.
Hydrarg. iod. rub.	gr. vij.
Aq. dest.	℥ij.

To be given daily in a pint of cold water, or half this dose may be administered twice daily. After six or eight doses have been given a great improvement in the condition is generally noticeable.

E. H. J. (93/12).—Colouring Feathers.—It is a misnomer to call the colour of the feather you send "post-office red," which is the name applied to the scarlet-red colour employed in painting Government letter-boxes. We think you are on the right lines in using permanganate of potash for producing the reddish-brown colour which is evidently desired. The addition of alkali would modify the colour, and it is necessary also to free the feathers from grease before using the dye. Other substances used to produce similar colours are paraphenylenediamine and para-amidophenol. Pyrogallol or hydroquinone in alkaline solution may also be tried, but it may be a little difficult to hit on the exact strength needed for the particular tint desired.

Private (97/18) wants to know where he can get courses of instruction on the Manufacture of Organic Chemicals, such as salol, resorcin, and phenacetin. This must follow a course of instruction in organic chemistry. The first stage in the production of synthetic chemical medicines is the discovery of a product and the process, with the mastery of the latter in the research laboratory of an educational institution. The second stage is passing the process along to a laboratory, where the article is produced on a larger scale, questions of economics, amounts of materials employed, labour, and so on being considered. The process is thus advanced materially, but it is not complete until it has gone through the third stage, where men of scientific knowledge and special business ability examine it for production on a large scale, this frequently involving changes in the chemical and physical departments of the process due, for example, to changes induced by mass action. This sort of thing is not, and never has been, taught at schools, but is necessary in chemical factories, where the successful men are those who back their scientific education with personal skill and knowledge.

T. E. P. (203/39).—Your Mixture for Severe Colds is rather weak from a diaphoretic point of view. It would be better to give the following mixture instead of one containing spirit of nitre and sal volatile:

Aq. chloroformi	ʒij.
Liq. ammon. acet. ad	℥viij.—M.

ʒss. quâque quartis horis.

Of course the person taking this should keep to bed while taking it, and you should ensure that this precaution is taken before giving any mixture of a diaphoretic nature. It is not possible to give a mixture that will check all colds.

H. A. D. (96/38) asks the base and best method of preparing Suppositories each containing 30 gr. of chloral hydrate, also one containing 15 gr. of the hypnotic. [Into a squat wide-mouthed bottle place 18 gr. of white beeswax and melt on a water-bath; to the melted wax add 30 gr. of powdered chloral hydrate and shake well. Then pour in 12 gr. of melted cacao butter and continue to shake until the mixture becomes creamy, when it can be poured into a mould previously well lubricated. This provides a one-drachm suppository containing 30 gr. of chloral hydrate. Half the quantities produce a suppository containing 15 gr. of chloral hydrate. This method is essentially that described in "The Art of Dispensing," p. 196. Ordinary glycerin suppository-moulds of half-drachm and one-drachm capacity are quite suitable for the suppositories.]

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," October 15, 1866

Early Closing.

At length the dawn of civilisation—say, rather, of common sense—has reached even pharmacy. About fifteen or more sensible men in South Belgravia have ventured on the initiation of a system of early closing. Whilst others have vainly waited for a combined and universal movement which will never originate outside Utopia, these gentlemen are entitled to the highest praise in having *done* something; and by the very act they have furthered the good cause more than by the most elaborate essay that might be written on the subject. We congratulate them on their courage with as warm a satisfaction as that with which we shall hereafter have to chronicle their success. Dating from October 1866, the new regulations will be carried out; and we need scarcely observe that the experiment will be watched with eager interest by many who themselves have hesitated to risk the hazard of the die. If any words of ours can aid the scheme we say at once that it has our unqualified approbation, whilst universal pharmacy is interested in its prosperity.

[This referred to letters from Edwin B. Vizer, 63 Lupus Street, who stated that the following chemists had signed the agreement: Messrs. Bradley & Bourdas, 41 Belgrave Road; Messrs. Carrick & Beddard, Churton Street; Mr. F. J. Chard, 39 Warwick Street; Mr. J. Davies, 20 Moreton Street; Mr. J. Fenn, 83 Regent Street; Mr. W. Gillett, surgeon, 77 Vauxhall Bridge Road; Mr. A. Hart, 117 Warwick Street; Mr. H. King, 1 Churton Street; Mr. J. H. Kinsey, 11 Hugh Street West; Mr. D. J. Lewis, 13 Upper Tachbrook Street; Mr. W. W. Urwick, 60 St. George's Road; Mr. E. B. Vizer, 63 Lupus Street; Mr. R. Watkins, Moreton Street; Mr. S. Wells, 91 Charlwood Street; Mr. J. Wilson, 20 Sussex Street.]

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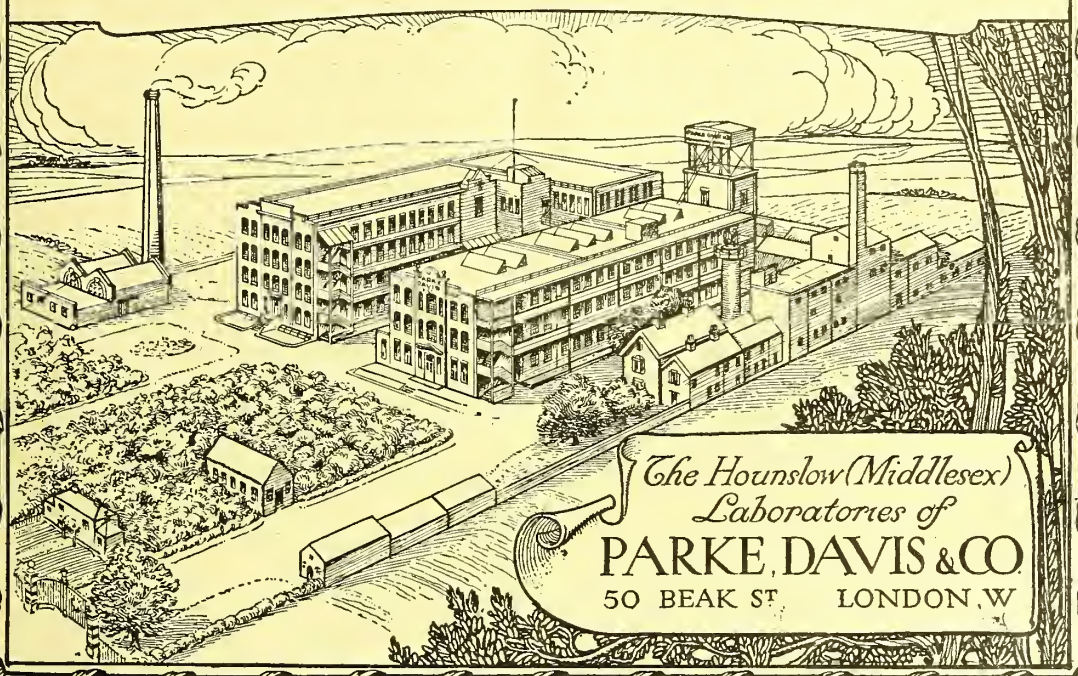

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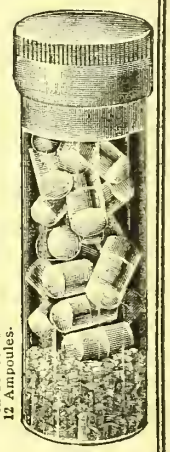
Fig. 1.

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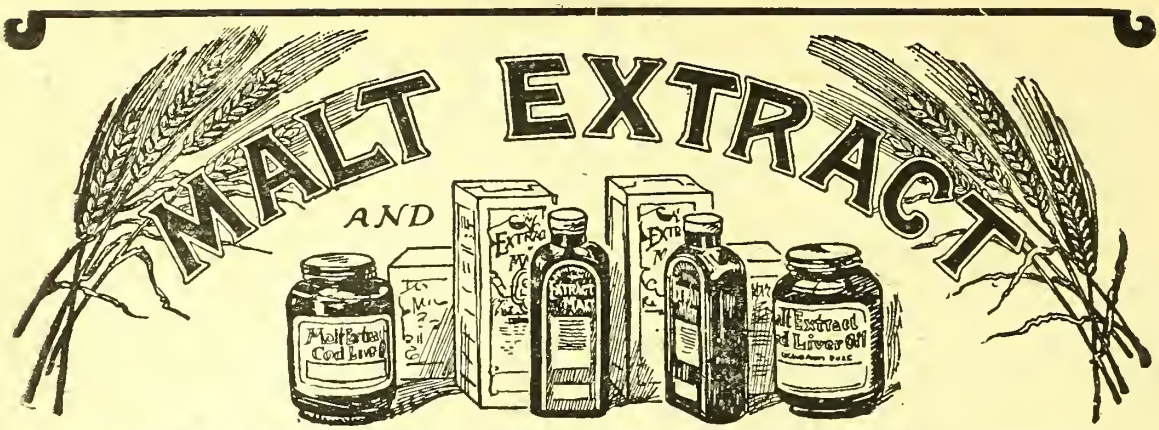

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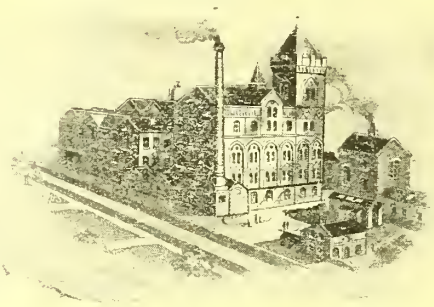

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,, Tannic, B.P., 1 lb. @ 6/6 lb.
,, Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 2/11 lb.; parv. ½d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 1/1½ lb.; 7 lbs. @ 1/2½ lb.
Ærugo Æris Pulv., 14 lbs. @ 1/5 lb.
Aloes Barb., English-ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.
Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.
Aloin, B.P., 1 lb. @ 5/6 lb.
Ammon. Benz., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.
Ammon. Brom. P.B., 7 lbs. @ 6/6 lb.
Ammon. Carb. lump, 3 cwt. @ 8d. lb.; 28 lbs. @ 9d. lb.; 7 lbs. @ 9½d. lb.; powder, ½d. lb. extra.
Ammon. Chlor., 99% pulv., 1 cwt. @ 59/- cwt.; 7 lbs. @ 7½d. lb.; Batteries, 6/- cwt. extra.
Amyli Pulv., 10 cwt. @ 30/- cwt.; 2½ cwt. @ 31/- cwt.; 1 cwt. @ 32/6 cwt.
Aniseed, English ground, 1 cwt. @ 62/- cwt. 7 lbs. @ 7½d. lb.
Antim. Nig. Pulv., 7 lbs. @ 10d. lb.
Antim. Tart. Pulv., 7 lbs. @ 3/- lb.
Apiol, 1 lb. @ 27/6 lb.
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Argent. Nit., 6's to oz., 25 oz. @ 2/4 oz.; 1 oz. @ 2/5 oz.
Argent. Nit., Cryst., 25 oz. @ 2/2 oz.; 8 oz. @ 2/3 oz.
Arsenic, Alb. Pulv., 2 cwt. @ 43/6 cwt.; 7 lbs. @ 5½d. lb.
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Auri Chlor., 6 doz. 15 gr. tubes @ 22/6 doz.; 1 doz. 15 gr. tubes @ 22/9 doz.

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Bismuth, P.B., Carb., 3 lbs. @ 13/6 lb.; 1 lb. @ 14/- lb.; subnit., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
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Boracic Mixture, 1 cwt. @ 85/- cwt.
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Caffeinæ Cit., B.P., 1 lb. @ 25/6 lb.
Calamina, powder, fine pink, 5 cwt. @ 25/- cwt.; 1 cwt. @ 28/- cwt.; 7 lbs. @ 4d. lb.
Calamine, B.P., 1885, 7 lbs. @ 1/3 lb.
Calcii Carb. Præcip., 5 cwt. @ 18/6 cwt.; 1 cwt. @ 23/- cwt.; 28 lbs. @ 27/6 cwt.
,, Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
,, Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.
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Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 25/- cwt.; 28 lbs. @ 3½d. lb.
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Carmine, Finest, 1 lb. @ 35/- lb.; No. 2, 1 lb. @ lb.
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,, Cinchon. Rub. (Quill), 7 lbs. @ 1/7 lb.
,, Ulmi Fulvæ, Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
Cream of Tartar, 98% powder, 1 cwt. @ 192/6 cwt.; 7 lbs. @ 1/10 lb.
Creasote, Beechwood, P.B., 7 lbs. @ 12/3 lb.
Creta c. Camph., 7 lbs. @ 10d. lb.
,, Gall. Pulv., in sacks, 10 cwt. @ 9/- cwt.; 1 cwt. @ 11/- cwt.; 14 lbs. @ 1½d. lb.
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,, Plumbi, P.B., 7 lbs. @ 1/1 lb.
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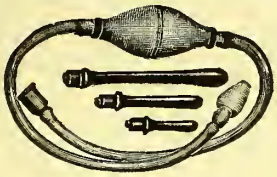

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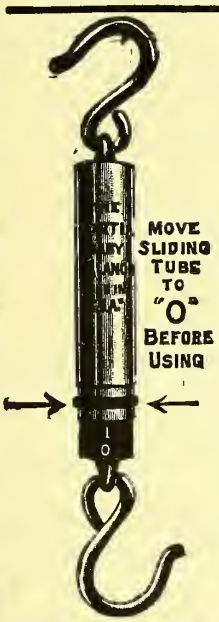

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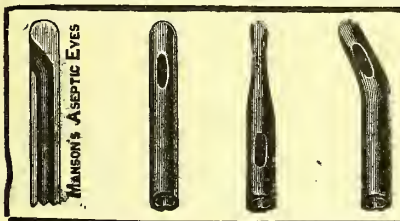

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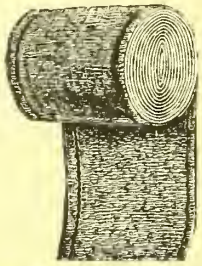

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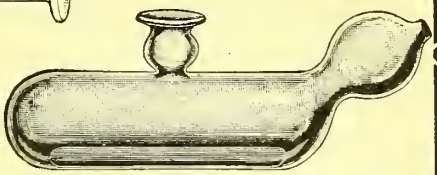

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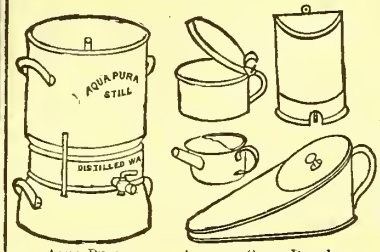

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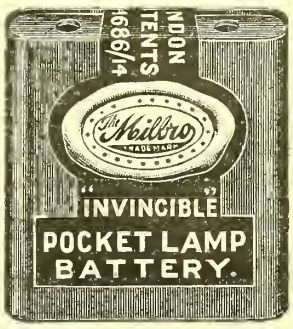

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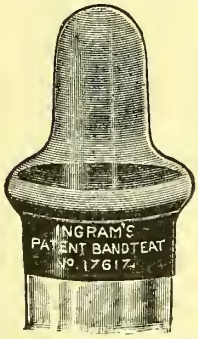
PATENT No 17617

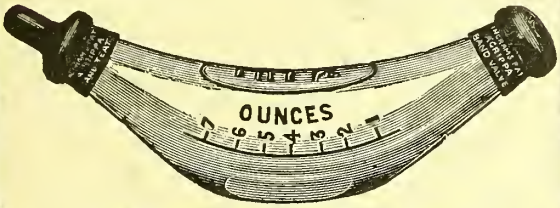
Band Teat and Valve

BRITISH MADE
by
BRITISH LABOUR.



"AGRIPPA" BAND TEAT
(Black or Transparent Rubber)

"AGRIPPA" BAND VALVE
(Black or Transparent Rubber)



IMPOSSIBLE TO SLIP OFF
PERFECTLY STERILIZABLE

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"AGRIPPA" TEAT (Patent No. 17617). Black or Transparent.	2/6 Per Doz. net. 27/6 Per Gross net. (For orders of 3 Doz. and over).	3½d. each
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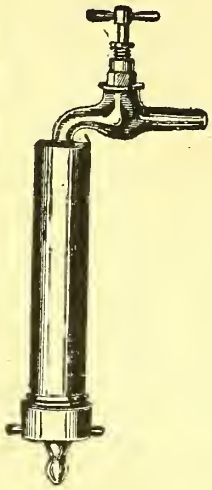

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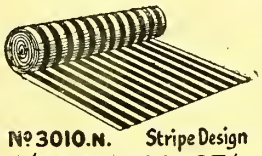

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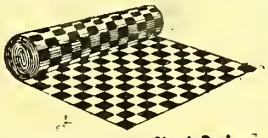

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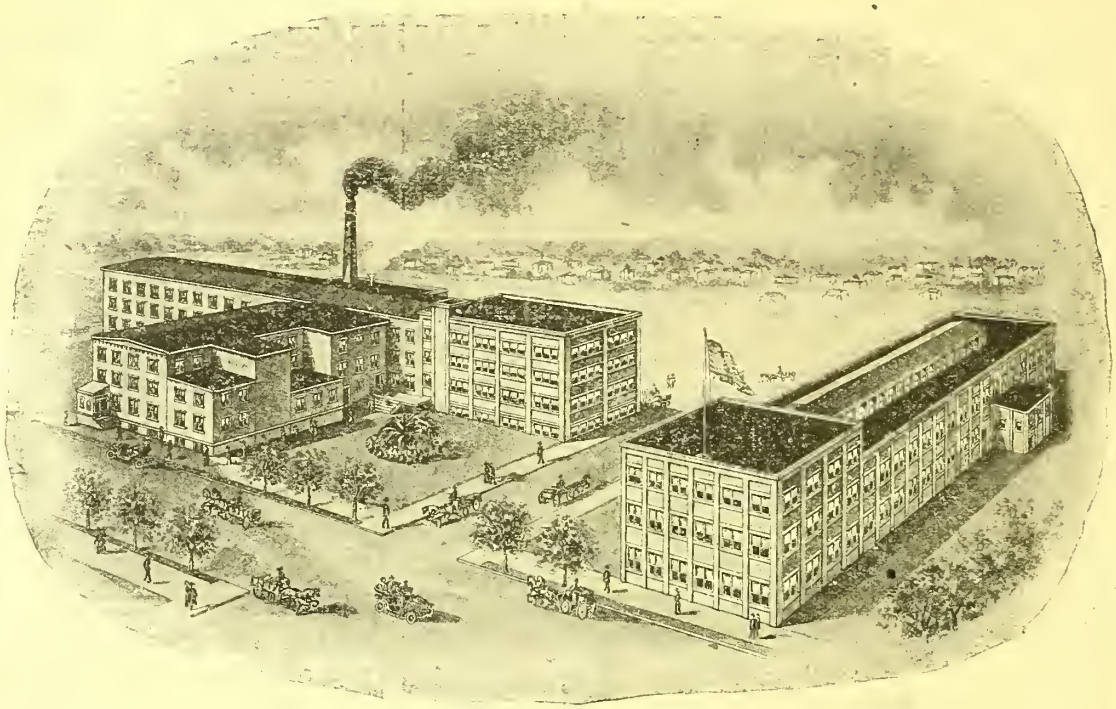

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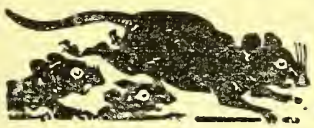

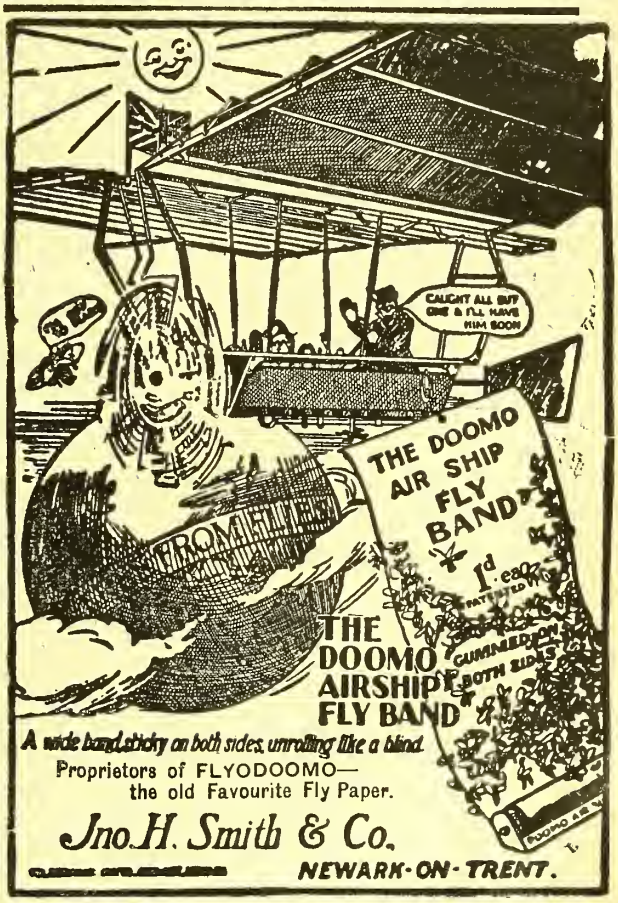

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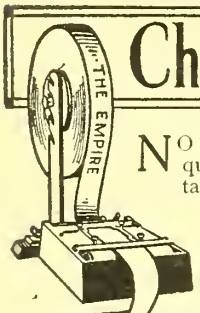

NOT only cheaper, but ever so much quicker, and parcels sealed with gummed tape look neater and are always secure.

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Read what one Chemist says:—

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Write for full particulars and prove its value to *you*.

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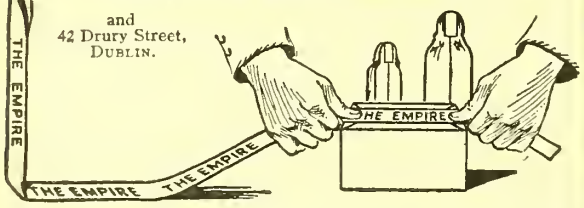

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We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.
CORKS.
Good Quality. For 6 and 8 oz. bottles, **1/6** per gross in 6 gross bags. For phials **1/-** per gross in 3 gross bags.

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Established 100 Years.

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To give you a fair start, we offer a Sample Cabinet complete, and a supply of strong selling literature at the following *cut prices, Cash with Order.*

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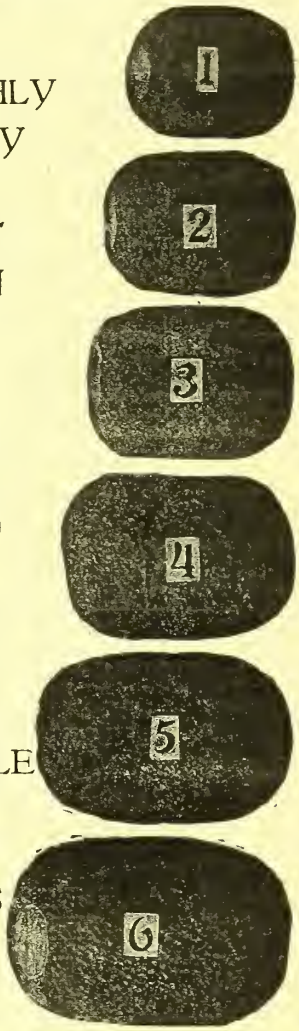
Very **GOOD PROFITS** for the Retailer

OBTAINABLE OF ALL DRUGGISTS' SUNDRIES HOUSES



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SOLE IMPORTERS,
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Crowning Machines

Foot, hand, and power operated crowners for all outputs. With and without Automatic Feed.

Prices from - £1 : 0 : 0

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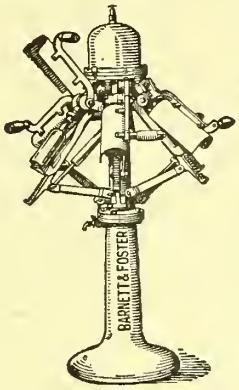

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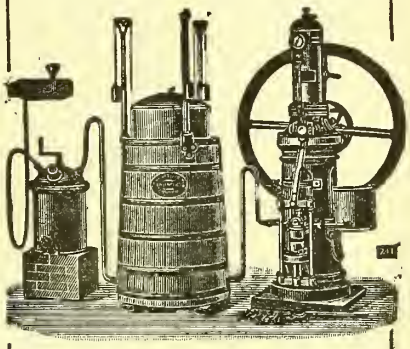
Prices from - £28 : 0 : 0

"Niagara" Soda-water Machines



Capacities from 100 to 6,000 doz. of 10-oz. bottles per day. Supplied complete with gas-work and automatic saturating cylinder. The best machine for export.

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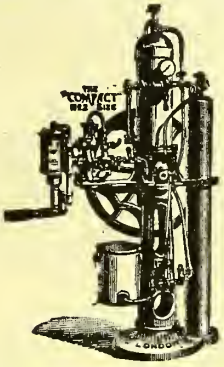

For use with liquefied carbonic acid gas. A complete mineral water plant, comprising soda-water machine and one or two fillers on one base. Easy to instal, simple to operate. Outputs up to 1,200 doz. bottles per day.

Prices from - £33 : 0 : 0

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Small and large, hand and power, machines. Can be supplied to fill on our back-pressure system.

Prices from - £6 : 6 : 0

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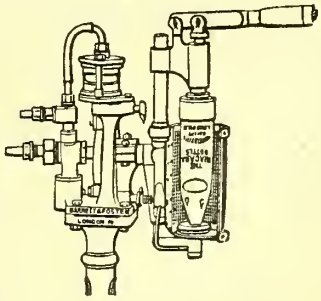
We can always supply codd, crown, cork, swing or screw stoppered bottles in all sizes, also our "London Made" syphons with pure tin tops.

Turnover Fillers



Our famous "Ideal." With this machine a lad can fill and syrup 80 dozen large bottles per hour.

Price

With Syrup Pump £10:10:0

Without „ £7 : 7 : 0

No. 163.

REDUCED REPRODUCTION OF COLOURED SHOWCARD.

Grey Angola Flannel, lined, with whalebone support. Adjustable to any size waist. **13/6** per dozen.
3 dozen lots **13/-** per dozen; 6 dozen lots **12/6** per dozen.
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Bicarbonate of Soda.

This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

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This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

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Carbonate of Ammonia

(Lump and Powder).

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Printed for the Proprietors by Spottiswoode, Ballantyne & Co. Ltd., New-Street Square, E.C.; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*October* 28, 1916.